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# United States Department of Agriculture

## INSECTICIDE AND FUNGICIDE BOARD

### SERVICE AND REGULATORY ANNOUNCEMENTS<sup>1</sup>

No. 52

Approved by the Acting Secretary of Agriculture, Washington, D. C., October 13, 1925

[Supplement to S. R. A.—Insecticides 13, 21, and 35]

#### NOTICE RELATIVE TO INSECTICIDE AND FUNGICIDE LAWS

In connection with the enforcement of the Insecticide Act of 1910 the board has many inquiries from correspondents relative to the various State laws in regard to the manufacture and sale of insecticides and fungicides. The board was furnished by State officials with publications and other information relating to such laws, and upon the basis of this material there was prepared a compilation of existing statutes on the subject, which has been published in Service and Régulatory Announcements Nos. 13, 21, and 35, issued September 16, 1916, October 18, 1918, and June 21, 1921. The new laws which have been passed and amendments made to old laws (to January 1, 1925) since the issuance of Announcements Nos. 13, 21 and 35, or not included therein, are published herein. The laws given hereinafter include the State laws or portions thereof which specifically deal with insecticides and fungicides (including disinfectants), and no attempt has been made to quote the various State food and drug laws, which apparently, but not in specific words, include disinfectants under their definition of the term "drug" nor has an attempt been made to include the various State pharmacy laws which have provisions relative to marking poisonous substances with the word "poison."

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The following is a list of State officials in charge of the enforcement of insecticide and fungicide laws and also an index reference to the laws published in Announcements 13, 21, 35, and 52:

State	Official in charge of enforcement	Law published in—	
		S. R. A.	Page
Alabama-----	H. M. Robertson, Division of Agricultural Chemistry, Department of Agriculture, and Industries, Montgomery.	52, 35	1195, 803
Arkansas-----	No law.		
Arizona-----	No law.		
California-----	G. H. Hecke, Director, Department of Agriculture, Sacramento.	52, 35, 13	1199, 808, 102
Colorado-----	G. P. Gillette, State Entomologist, Colorado Agricultural College, Fort Collins.	21, 13	435, 106

<sup>1</sup> Free distribution will be limited to firms, establishments, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each.

State	Official in charge of enforcement	Law published in—	
		S. R. A.	Page
Connecticut.....	Thomas Holt, Dairy and Food Commissioner, New Haven.....	52	1205
Delaware.....	Stanley H. Osborn, Health Commissioner, Hartford.....	21	437
Florida.....	Ralph C. Wilson, Secretary, State Board of Agriculture, Dover.....	35	811
Georgia.....	No law.		
Idaho.....	J. J. Brown, Commissioner of Agriculture, Atlanta.....	35	811
Illinois.....	M. L. Dean, Director, Bureau of Plant Industry, Department of Agriculture, Boise.	35, 13	815, 108
Indiana.....	No law.		
Iowa.....	No law.		
Kansas.....	M. G. Thornburg, Secretary of Agriculture, Des Moines.....	21	438
Kentucky.....	No law.		
Louisiana.....	Miss Sarah H. Vance, Director, Bureau of Foods, Drugs, and Hotels, State Board of Health, Louisville.	35, 21, 13	817, 441, 110
Maine.....	Harry D. Wilson, Commissioner, Department of Agriculture and Industries, Baton Rouge.	52, 13	1207, 114
Maryland.....	A. M. G. Soule, Chief, Bureau of Inspection, Department of Agriculture, Augusta.	13	117
Massachusetts.....	A. L. Sullivan, State Food and Drug Commissioner, Department of Health, Baltimore.	13	120
Michigan.....	No law.		
Minnesota.....	W. C. Geagley, Chief Chemist, Department of Agriculture, Lansing.	13	124
Mississippi.....	Chris. Heen, Dairy and Food Commissioner, St. Paul.....	13	126
Missouri.....	No law.		
Montana.....	F. P. Linfield, Director, Agricultural Experiment Station, Bozeman.	13	127
Nebraska.....	No law.		
New Hampshire.....	Andrew L. Felker, Commissioner of Agriculture, State House, Concord.	13	130
New Jersey.....	C. S. Cathcart, State Chemist, Agricultural Experiment Station, New Brunswick.	13	132
New York.....	George G. Atwood, Director, Bureau of Plant Industry, Department of Farms and Market, Albany.	52, 35, 13	1211, 825, 134
Nevada.....	No law.		
New Mexico.....	No law.		
North Carolina.....	No law.		
North Dakota.....	R. O. Baird, State Food Commissioner and Chemist, Fargo.....	52, 13	1212, 135
Ohio.....	N. E. Shaw, Secretary of Agriculture, Columbus.....	21, 13	442, 139
Oklahoma.....	No law.		
Oregon.....	R. H. Robinson, Oregon Experiment Station, Corvallis.....	52, 13	1214, 142
Pennsylvania.....	J. W. Kellogg, Assistant Director, Chief Chemist, Bureau of Foods and Chemistry, Department of Agriculture, Harrisburg.	21, 13	443, 145
Rhode Island.....	No law.		
South Carolina.....	A. F. Conradi, State Entomologist, State Crop Pest Commissioner, Clemson College.	52	1216
	B. Harris, Commissioner, Department of Agriculture, Commerce and Industry, Columbus.	52, 35	1216, 826
South Dakota.....	No law.		
Tennessee.....	F. M. McRee, Commissioner of Agriculture, Nashville, Tenn.	35	827
Texas.....	No law.		
Utah.....	Heber J. Webb, State Board of Agriculture, Capitol Building, Salt Lake City.	52, 35	1220, 830
Vermont.....	No law.		
Virginia.....	G. W. Koiner, Commissioner, Department of Agriculture and Immigration, Richmond.	52	1222
Washington.....	Chas. L. Robinson, Supervisor, Division of Horticulture, Department of Agriculture, Olympia.	52, 35, 13	1224, 832, 140
West Virginia.....	No law.		
Wisconsin.....	S. B. Fracker, Director, Division of Insect and Plant Disease Control, Madison.	52, 21, 13	1225, 446, 150
Wyoming.....	No law.		

## ALABAMA

AN ACT To provide a general system of legislation pertaining to agriculture and industries and related subjects, including therein the establishment of a department of agriculture and industries; a State board of agriculture; the abolition of the board of agriculture as provided by an act approved February 11, 1911, and known as the board of agriculture; the abolition of the board provided for by chapter 24 of the Code of 1907, as subsequently amended and known as the State board of horticulture; and the abolition of a board provided for by article 4 of chapter 22 of the Code of 1907, as subsequently amended and known as the State livestock sanitary board; the transfer of all the powers and duties vested in and required to be performed by the said boards abolished, and of any unexpended balances of fees or appropriations to the said board created in this act; the prescribing of the powers and duties of the commissioner of agriculture and industries and of the State board of agriculture; and including ample provisions governing and regulating the subjects of \* \* \*; insecticides and fungicides; \* \* \*; the establishment of an agricultural fund in the State

treasury out of the sums accruing from the operation of the provisions of this act, and the appropriations from said fund for the support of these provisions; and the repeal of all laws and parts of laws in conflict with the provisions of this act.

*Be it enacted by the Legislature of Alabama:*

## ARTICLE 1

### DEFINITIONS

SECTION 1. This act shall be known, and when cited or amended, may be designated as the "Agricultural Code of Alabama."

SEC. 2. *Definitions.*—For the purpose of this act the word "person" means an individual, a partnership, a corporation, or two or more individuals having a joint or common interest. When construing and enforcing the provisions of this act, the act, omission, or failure of any officer, agent, or other person acting for or employed by any individual, partnership, corporation, or by two or more individuals having a joint or common interest, shall in every case also be deemed to be the act or omission or failure of such individual, partnership, corporation, or of two or more individuals having a joint or common interest. The having in possession, by any person who manufactures, sells, keeps for sale, offers or exposes for sale, serves, distributes, or delivers fertilizers, fertilizer materials, ground limestone, paint, white lead, linseed oil, turpentine, kerosene and other illuminating oils, insecticides and fungicides, commercial feeds, agricultural seeds, eggs, vinegar, sausage, imitation butter and cheese; milk, cream, ice cream, and other dairy products, or any article of food, or drugs, shall be *prima facie* evidence of having in possession with intent to sell; except that this shall not apply to any common carrier when said products or articles were received by said carrier for transportation in the ordinary course of its business, and without actual knowledge of the adulteration, misbranding, under standard, grade, weight, or measure claimed. Wherever the words "sell" or "sold" occur in this act, it shall imply the sale, keeping for sale, offer or exposure for sale, having in possession for sale, delivery, or distribution in this State, of the product or article in question.

## ARTICLE 2

### STATE BOARD OF AGRICULTURE

SECTION 1. There is hereby created a State board of Agriculture, composed of seven members, which shall sit with the commissioner of agriculture and industries and shall exercise such duties and powers as are provided in this act. This board shall be made up as follows: The commissioner of agriculture and industries, *ex officio* chairman; the director of the Alabama experiment station of the Alabama Polytechnic Institute; three outstanding general farmers; one outstanding farmer engaged in horticulture; and one outstanding livestock farmer. The five said farmer members of the State board of agriculture shall be appointed by the governor and confirmed by the senate, provided that no two of the said appointive members shall reside in the same congressional district of the State. The three general farmers shall be appointed at first for a term of two years; the outstanding farmer engaged in horticulture for a term of four years; and the outstanding livestock farmer for a term of six years. At the expiration of the first term of the farmer members, they shall be appointed for terms of six years each, and the regular term of service thereafter shall be six years each: *Provided, however,* That any of the said appointive members shall be subject to dismissal by the governor at his pleasure. In the event of such dismissal, the governor shall appoint a new member to serve for the unexpired term of the member so dismissed.

\* \* \* \* \*

Sec. 4. The State board of agriculture is hereby empowered: (1) To co-operate with the United States Department of Agriculture and any Federal board, and with county and municipal officials, in the enforcement of such regulatory or police matters as are set forth for example in articles five and six of this act. (2) To cooperate with the agricultural experiment station and extension service of the Alabama Polytechnic Institute in promoting the interests of agriculture in Alabama. (3) To make and promulgate reasonable rules and regulations not in conflict with the provisions of this act, and to

direct the expenditure of the funds appropriated for carrying out the objects and purposes of this act. (4) To proceed, without delay, and do all things necessary to the end that samples of all the soil divisions and soil types in Alabama are carefully drawn and analyzed and that the soil survey of Alabama, and the necessary resurvey and revision of the soil survey work, are completed and State soil survey maps and reports are printed for distribution. (5) To meet emergencies that may arise because of any defect in the language or purpose of this act, the State board of agriculture shall have the power to make rules and regulations as will give full force and effect to any or all of its provisions.

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### ARTICLE 3

#### DEPARTMENT OF AGRICULTURE AND INDUSTRIES

SECTION 1. A department of the government of the State of Alabama to be known as the department of agriculture and industries is hereby created, with the commissioner of agriculture and industries as the executive officer. For the purpose of administration, the department shall be forthwith organized by the commissioner of agriculture and industries in such manner as, with the advice and counsel of the State board of agriculture, shall be deemed necessary to properly segregate and conduct the work of the department. The work of the department shall be organized into five divisions to be known as the division of plant industry, the division of agricultural chemistry, the division of animal industry, the division of markets, and the clerical and records division. The commissioner of agriculture and industries, with the approval of the State board of agriculture, may create such subdivision as may be necessary, and change or abolish the same from time to time with the approval of the said board. So far as consistent with law, the commissioner of agriculture and industries may adopt such rules and regulations as may be necessary, to govern the activities of the department and may assign to each of the officials and employees thereof such duties and labors as he may see fit and he may, from time to time for the betterment of the public service, reassign to any and all employees under the chief of any division, such duties as he may desire to be performed.

\* \* \* \* \*

SEC. 13. The attorney general shall be the legal advisor of the department of agriculture and industries in all matters relating to the department and to the powers and duties of the commissioner of agriculture and industries, his agents and employees. Upon the request of the commissioner of agriculture, the attorney general, under his direction, the circuit solicitor of any county in which the proceedings is brought, shall aid in any investigation, hearing, prosecution or trial had under the laws which the department is required to administer, and shall institute and prosecute all necessary actions or proceedings for the enforcement of such law and for the punishment of all violations thereof.

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### ARTICLE 17

#### INSECTICIDE AND FUNGICIDE

The provisions of this article shall govern the manufacture, sale, offering for sale, or other disposition of insecticides, fungicides or ingredients thereof, and other remedies or materials used in the control or eradication of insect pests and plant disease within the State of Alabama.

SECTION 1. It shall be unlawful for any person to manufacture within the State of Alabama, or to sell within the State any insecticide, Paris green, lead arsenate, or a fungicide, which is adulterated or misbranded within the meaning of this article; and any person who shall violate any of the provisions of this article shall be guilty of a misdemeanor, and shall upon conviction thereof be fined not less than \$50 nor more than \$200 for the first offense, and upon conviction for each subsequent offense be fined not less than \$200 or more than \$500, each and all of which fines when collected, shall be paid to the commissioner of agriculture and industries and credited to the "agricultural

fund" and be used for the purpose of carrying out and enforcing the provisions of this article.

SEC. 2. It shall be the duty of the commissioner of agriculture and industries, with the assistance of the State board of agriculture to make uniform rules and regulations for carrying out the provisions of this article, including the collections and examination of specimens of insecticides, Paris green, lead arsenates, and fungicides manufactured and sold in this State: *Provided*, The rules and regulations so made shall be uniform with the rules and regulations for the enforcement of the United States insecticide act of 1910. The commissioner of agriculture and industries or his agent is hereby authorized to draw a sample from any lot, parcel, or package of insecticides or fungicide, or material or mixture of materials used for insecticidal or fungicidal purposes which may be manufactured and sold in this State, and said samples shall be submitted to the official chemist of the department (the ex-officio State chemist), who shall make an analysis of the same at the earliest practical moment and report the results of such analysis to the commissioner.

SEC. 3. If it shall appear from any examination herein provided for, that any such specimens are adulterated or misbranded within the meaning of this article, the commissioner of agriculture and industries shall cause notice thereof to be given to the person from whom such sample was obtained. Any person so notified shall be given an opportunity to be heard under such rules and regulations as may be prescribed aforesaid, and if it appears that any of the provisions of this article have been violated by such person, then the commissioner of agriculture and industries shall at once certify the facts to the proper circuit solicitor of this State, with a copy of the results of the analysis, or the examination of such article duly authenticated by the analyst or officer making such examination under the oath of such officer. After judgment of the court that article or articles is or are not misbranded or adulterated, notice of the court's judgment or finding shall be given by publication in such manner as may be prescribed by the rules and regulations aforesaid.

SEC. 4. It shall also be the duty of each circuit solicitor to whom the commissioner of agriculture and industries shall report any violation of this article to cause appropriate proceedings to be commenced and prosecuted in the proper courts of record of this State without delay for the enforcement of the penalties as in such cases herein provided.

SEC. 5. The term "insecticide" as used in this article shall include any substance or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any insects which may infest vegetation, man, or other animals, or households, or be present in any environment whatsoever. The term "Paris green" as used in this article shall include the produce sold in commerce as Paris green and chemically known as the aceto arsenite of copper. The term "lead arsenate" as used in this article shall include the product or products sold in commerce as lead arsenate and consisting chemically of products derived from arsenic acid ( $H_3AsO_4$ ) by replacing one or more hydrogen atoms by lead. That the term "fungicide" as used in this article shall include any substance or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any and all fungi that may infest vegetation or be present in any environment whatsoever.

SEC. 6. For the purpose of this article an article shall be deemed to be adulterated—in the case of Paris green: First, if it does not contain at least 50 per centum of arsenious oxide; second, if it contains arsenic in water soluble forms, equivalent to more than three and one-half per centum of arsenious oxide; third, if any substance has been mixed and packed with it so as to reduce or lower or injuriously affect its quality or strength. In the case of lead arsenate: First, if it contains more than fifty per centum of water; second, if it contains total arsenic equivalent to less than twelve and one-half per centum of arsenic oxide ( $As_2O_3$ ); third, if it contains arsenic in water soluble forms, equivalent to more than seventy-five one-hundredths per centum of arsenic oxide ( $As_2O_5$ ); fourth, if any substances have been mixed and packed with it so as to reduce, lower, or injuriously affect its quality or strength: *Provided, however*, That extra water may be added to lead arsenate (as described in this paragraph) if the resulting mixture is labeled lead arsenate and water, the percentage of extra water being plainly and correctly stated on the label. In the case of insecticides or fungicides other than Paris greens and lead arsenate: First, if its strength and purity fall below the professed standard of quality under which it is sold; second,

if any substance has been substituted wholly or in part for the article; third, if any valuable constituent of the article has been wholly or in part abstracted; fourth, if it is intended for use on vegetation and shall contain any substance or substances which, although preventing, destroying, repelling, or mitigating insects, shall be injurious to such vegetation when used.

SEC. 7. The terms misbranded as used herein shall apply to all insecticides, Paris greens, lead arsenates, or fungicides or articles which enter into the composition of insecticides or fungicides the package or label of which shall bear any statement, design, or device regarding such article or the ingredients or substances contained therein which shall be false or misleading in any particular, and to all insecticides, Paris greens, lead arsenates, or fungicides which are false branded as to the States, Territory, or county in which they are manufactured or produced. For the purpose of this article an article shall be deemed to be misbranded—In the case of insecticides, Paris greens, lead arsenates, and fungicides: First, if it be an imitation or offered for sale under the name of another article; second, if it be so labeled or branded so as to deceive or mislead the purchaser, or if the contents of the package as originally put up shall have been removed in whole or in part and other contents shall have been placed in such package; third, if in package form and the contents as stated in terms of weight or measure, they are not plainly and correctly stated on the outside of the package. In the case of insecticides (other than Paris greens and lead arsenates) and fungicides: First, if it contains arsenic in any of its combinations or in the elemental form and the total amount of arsenic present (expressed as per centum of metallic arsenic) is not stated on the label; second, if it contains arsenic in any of its combinations or in the elemental form and the amount of arsenic in water soluble forms (expressed as per centum of metallic arsenic) is not stated on the label; third, if it consists partially or completely of any inert substance or substances which do not prevent, destroy, repel, or mitigate insects or fungi and does not have the names and percentage amounts of each and every one of such inert ingredients plainly and correctly stated on the label: *Provided, however,* That in lieu of naming and stating the percentage amounts of each and every inert ingredient the producer may at his discretion state plainly upon the label the correct names and percentage amounts of each and every ingredient of the insecticide or fungicide having insecticidal or fungicidal properties and make no mention of the inert ingredients, except in so far as to state the total percentage of inert ingredients present.

SEC. 8. No dealer shall be prosecuted under the provisions of this article when he can establish a guaranty signed by the wholesaler, jobber, manufacturer, or other party from whom he purchased such articles, to the effect that the same is not adulterated or misbranded within the meaning of this article. Said guaranty to afford protection shall contain the name and address of the party or parties making the sale of such articles to such dealer, and in such case said party or parties shall be amenable to the prosecutions, fines, and other penalties which would attach in due course to the dealer under the provisions of this article.

SEC. 9. Any manufacturer of an insecticide or fungicide shall before the same is offered for sale in Alabama, file or cause to be filed with the commissioner of agriculture and industries for each and every brand of insecticide and fungicide, a certified statement of the brand name and of the chemical analysis, showing the active or inert constituents as required by section 7 of this article (provided that whenever any inert constituent is claimed to exert especial attractions it shall be considered as active and its nature and percentage shall be filed with the said commissioner and shall be stated on the label of the product), in the form of an application for registration of the brand. Said application shall be accompanied by a copy of the label proposed for use in connection with the sale of said brand, and when said commissioner of agriculture and industries shall so request, with a sealed package containing not less than one pound of the insecticide or fungicide. The manufacturer filing or causing to be filed such certificate shall accompany the application with and shall pay annually to the commissioner of agriculture and industries a fee of ten dollars on each and every brand prepared and offered for interstate shipment, and a fee of five dollars per brand for such brands as are not offered for interstate shipment (except that said fee shall not be assessed for registration of an insecticide or fungicide consisting of organic matter and not containing any added inorganic matter or mineral chemical, provided that a complete chemi-

cal analysis, showing the active or inert constituents and the proportions of same, of said insecticide or fungicide is given in, and as part of the certificate required under this section). Whenever any person shall have filed said certificate and paid said registration fee, no other person shall be required to file such statement or pay such fee. If after a brand of insecticide or fungicide has been registered it is later discovered that the brand was registered in violation of the provisions of this article, the commissioner of agriculture and industries shall have authority to cancel the registration.

SEC. 10. Any person who shall violate any provision of this article, or who shall sell or distribute brands of insecticides or fungicides which have not been duly registered, shall be guilty of a misdemeanor, and upon conviction thereof be fined not less than fifty (\$50.00) dollars nor more than two hundred (\$200.00) dollars for each offense.

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#### ARTICLE 44

*SECTION 1. Be it further enacted:* That all laws and parts of laws in conflict with this act shall be and the same are hereby repealed; provided that the provisions of this act shall not repeal statutes pertaining to agriculture and industries, and related subjects, not expressly treated in whole or in part in this act.<sup>2</sup>

*SEC. 2. Be it further enacted:* That if any provision of this act or the application thereof to any person or circumstances shall be held by the supreme court of the State to be unconstitutional, such holding shall not affect any other provision of this act, or the application of such provision to other persons or circumstances, it being the intent and purpose hereof that each provision hereof shall stand or fall on its own merits and that the judicial annulment for unconstitutionality of any provision hereof shall have no effect upon any other provision not so annulled.

*SEC. 3. Be it further enacted:* That in lieu of any provision of this act that shall be judicially annulled for unconstitutionality, the existing law at the time of the adoption of this act governing that subject shall be and remain in full force and effect and shall take the place of and be substituted for the provision so annulled.

*SEC. 4. Be it further enacted:* That any person violating any provision of this act shall be guilty of a misdemeanor and, upon conviction, unless otherwise provided in this act, shall be fined not less than ten nor more than fifty dollars for the first offense and double that amount for each such succeeding offense.

*SEC. 5. Be it further enacted:* That this act shall, except as may otherwise be provided for certain articles contained herein, go into effect on October 1, 1923.

Approved Sept. 27, 1923.

General Laws of Alabama, 1923, No. 376.

#### CALIFORNIA

AN ACT To regulate the manufacture, sale, and use of economic poisons; to prevent the adulteration, misbranding, and misrepresentation of economic poisons; to provide penalties for the violation thereof; to provide means for its enforcement; and creating the division of chemistry fund

[Approved June 3, 1921. In effect August 2, 1921]

*The people of the State of California do enact as follows:*

SECTION 1. This act shall be known and referred to as "the California economic poison act of 1921."

SEC. 2. It shall be unlawful for any person to manufacture, deliver, or offer to deliver, sell, offer, or expose for sale in this State any adulterated or misbranded economic poison which is adulterated or misbranded within the meaning of this act; or to export, or offer to export, the same to any foreign country: *Provided*, That no article shall be deemed misbranded or adulterated within the provisions of this act when intended for export to any foreign country and

<sup>2</sup>The 1919 law of Alabama that is amended by this act is published on p. 803 of S. R. A., Insecticide No. 35.

prepared or packed according to the specifications or directions of the foreign purchaser; but if said article shall be in fact sold, or exposed for sale, for domestic use or consumption, then this proviso shall not exempt said article from the operation of any of the provisions of this act.

SEC. 3. The director of agriculture shall administer and enforce the provisions of this act and shall make rules and regulations for carrying out the provisions of this act, including the collection and analysis or examination of samples, the registration of manufacturers and dealers, and other procedures not inconsistent with this act. No rule or regulation shall become effective until the expiration of thirty days after it shall have been first promulgated by a proclamation signed by the director of agriculture and published in one or more newspapers and farm journals of general circulation in the State of California and sent to each person registered in compliance with the provisions of this act.

SEC. 4. The director of agriculture, in person or by his agents, shall take samples of economic poisons, make analysis or examination thereof, and make investigation concerning the use, sale, adulteration, or misbranding of economic poisons at such times and to such extent as are necessary for the full enforcement of this act.

SEC. 5. The results of examination or chemical analysis of official samples of economic poisons shall be published by the director, and such additional information as to him may seem advisable.

SEC. 6. When the director of agriculture becomes cognizant of the apparent violation of any of the provisions of this act or of any of the rules and regulations promulgated thereunder, it shall be his duty to cause notice of such fact, together with a copy of the findings, to be given to the person suspected of violating the law. The person notified shall be given an opportunity to be heard under such rules and regulations as may be promulgated for that purpose.

SEC. 7. The term "economic poisons" as used in this act shall include any substance, or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any and all insects, fungi, weeds, rodents, or other plant or animal pest, collectively or individually, which may infest or be detrimental to vegetation, man or other animals or households, or be present in any environment whatsoever.

The term "insect" as used in this act is defined as any of the small invertebrate animals known as insects and similar forms of animal life such as centipedes, lice, and other animals of these classes.

The term "fungi" as used in this act is defined as all rusts, smuts, mildews, molds, yeasts, bacteria, and similar forms of plant life.

The term "weed" as used in this act is defined as any plant which grows where not wanted.

The term "rodent" as used in this act is defined as all members of the order *Rodentia* and all rabbits and hares.

The term "other plant or animal pest" as used in this act shall include any form of plant or animal life which the director of agriculture may by rules and regulations declare to be a pest.

For the purpose of this act an economic poison shall be deemed to be adulterated:

First: If its strength or purity shall fall below the standard or quality under which it is sold; second, if any valuable constituent of the article has been wholly or in part abstracted or omitted in its manufacture, or other materials substituted for the same; third, if it is intended for use on vegetation and shall contain any substance or substances which, although preventing, destroying, repelling, or mitigating insects, fungi, weeds, rodents or other plant or animal pest, shall be seriously injurious to vegetation, except weeds, when used according to the directions recommended and furnished therewith.

For the purpose of this act economic poisons shall be deemed to be misbranded:

First: If the package or label thereon shall bear any statement, design, or device regarding such article or the ingredients or substances contained therein which shall be false or misleading; second, if such package or label is falsely branded as to the city, State, Territory, or county in which the same is manufactured or produced; third, if it be an imitation or offered for sale under the name of another article; fourth, if it be labeled or branded, so as to deceive or mislead the purchaser; fifth, if the contents of the package as originally put up shall have been removed in whole or in part and other contents shall have been placed in such package; sixth, if in package form and the

contents are stated in terms of weight or measure, they are not plainly and correctly stated on the outside of the package; seventh, if it consists partially or completely of any inert substance or substances which do not prevent, destroy, repel, or mitigate insects, fungi, weeds, rodents, or other plant or animal pests, and does not have the names and percentage amounts of each and every one of such inert ingredients plainly and correctly stated on the label: *Provided, however,* That in lieu of naming and stating the percentage amount of each and every inert ingredient, the producer may at his discretion state plainly upon the label the correct names and percentage amounts of each and every active ingredient and make no mention of the inert ingredients, except in so far as to state the total percentage of inert ingredients present.

The word "person" as used in this act shall be construed to mean both the plural and the singular, as the case demands, and shall include corporations, companies, societies and associations. When construing and enforcing the provisions of this act, the act, omission or failure of any officer, agent, or other person acting for any corporation, company, society, or association, shall in every case be also deemed to be the act, omission, or failure of such corporation, company, society, or association, as well as that of the other person.

SEC. 8. In any prosecution of any agent or dealer under the provisions of section two of this act, the proof that the adulterated or misbranded economic poison which is the basis of said prosecution was guaranteed by the wholesaler, jobber, manufacturer, or any other party from which said economic poison was purchased, to the effect that the same is not adulterated or misbranded within the meaning of this act, shall be a full and complete defense thereto.

SEC. 9. Every lot, parcel, or package of economic poison sold, offered or exposed for sale, within this State, shall be accompanied by a plainly printed label, stating the name, brand, or trade-mark, if any there be, under which the economic poison is sold, the name and address of the manufacturer, importer, or dealer, and the place of manufacture.

SEC. 10. The provisions of this act shall not apply to the sale of any of the preparations, drugs, and chemicals of the United States Pharmacopœia or National Formulary when used or sold for medicinal or toilet purposes which conforms to the standard and tests prescribed in the latest edition of the United States Pharmacopœia or National Formulary, nor shall the provisions of this act apply to the sale of any medicinal or toilet preparations or substance guaranteed under the United States pure food and drugs act of June 30, 1906, and the California pure food and drugs act, Statutes of California for 1907, chapter one hundred eighty-seven, and manufactured and sold exclusively for toilet and medicinal purposes.

SEC. 11. The director of agriculture shall upon the receipt of a sample of economic poison, accompanied by the required fee, cause such analysis, examination or test to be made thereof as will substantially establish the conformity or nonconformity of said sample to the guarantee under which it is sold or to be sold, and shall inform the sender thereof the results of all such analysis, examination, or test. The schedule of all fees required for such analysis, examination, or test shall be determined by the director of agriculture and shall be a part of the rules and regulations provided for in section three hereof. All fees collected in such manner shall be applied as provided for in section seventeen hereof.

SEC. 12. Every manufacturer, importer, agent of, or dealer in any economic poison, except as hereinafter provided, shall, before the same is offered for sale, obtain a certificate of registration from the director of agriculture authorizing the manufacture and sale of economic poisons in this State. Every manufacturer, importer, agent of, or dealer in economic poisons, except county, State, and Federal officials or employees selling the same at cost, and further excepting any person manufacturing an economic poison or poisons intended to be used in households or their immediate environments, which economic poisons do not exceed a total retail value of five hundred (500) dollars per annum before obtaining such registry, shall pay to the director of agriculture the sum of fifty (50) dollars to be applied as provided for in section nineteen of this act, and shall file a statement of the brands, trade-marks, and kinds of economic poisons intended to be manufactured or offered for sale, together with a statement of the correct names and percentage amounts of each and every active ingredient and the total percentage of inert ingredients contained therein; or in lieu of stating the correct names and percentage amounts of each and every active ingredient and the total percentage of inert ingredients contained therein, may deliver to the director of agriculture or his agent a

representative sample not less than one pound in weight of each economic poison desired to be registered.

Additions or corrections to the above statements may be made at any time during the period of registration without additional charge upon notifying the director of agriculture, together with a statement of the correct names and percentages of each and every active ingredient and the total percentage of inert ingredients contained therein, or in lieu of such statement delivering to the director of agriculture or his agent a representative sample of not less than one pound in weight of each additional economic poison desired to be registered or for which corrected statements is desired to be made. Such registration shall expire on the thirtieth day of June of the fiscal year for which it was given: *Provided*, The provisions of this section shall not apply to the sale by an agent or dealer of any economic poison which is registered by the manufacturer or wholesaler thereof as herein provided, nor to the sale of raw material to manufacturers to be used in the preparation of economic poisons. When any manufacturer, importer, agent of, or dealer in economic poisons having fully complied with the provisions of this act and the rules and regulations as provided for therein makes application for registration, the director of agriculture shall without unnecessary delay cause the same to be registered and issue a license to the applicant authorizing the manufacture and sale of economic poisons in the State.

It shall be unlawful for any person, firm, or corporation to manufacture, deliver, offer to deliver, sell, offer for sale, or expose for sale any economic poison not registered and described as provided for in this section.

SEC. 13. All persons charged with the enforcement or execution of any of the provisions of this act shall not directly or indirectly be interested in the sale, manufacture, or distribution of any economic poison affected by this act.

SEC. 14. The director of agriculture shall have the power, after hearing, as provided for in this act, to cancel or to refuse to register any economic poison which has been shown to have little or no value for the purpose for which it is intended to be used, or has been shown to be generally detrimental or seriously injurious to vegetation (except weeds), to domestic animals, or to public health, when properly used. Said director shall also have the power to cancel the registration of or refuse to register any manufacturer, importer, agent of, or dealer in economic poisons who repeatedly violates any of the provisions of this act, or rules and regulations which shall be made for carrying out the provisions of this act.

SEC. 15. Any economic poison that is condemned as being adulterated or misbranded within the meaning of this act, or detrimental to agriculture or to the public health, shall be seized and disposed of in such manner as the court, after notice to all interested parties and hearing, may direct.

SEC. 16. Any person who shall violate any of the provisions of this act shall be guilty of a misdemeanor.

SEC. 17. The director of agriculture shall, at least once each month, report to the State controller the amount of fees and moneys collected, and at the same time he shall pay into the State treasury the entire amount of such receipts. All such receipts shall be credited to the division of chemistry fund, which fund is hereby created, and shall be held subject to the uses of the division of chemistry, State department of agriculture.

The division of chemistry fund shall also include all funds remaining in the State treasury when this act becomes effective which have been collected under the provisions of an act entitled "An act to regulate the sale of commercial fertilizers or materials used for manurial purposes, and to provide penalties for the infraction thereof, and means for the enforcement of the act," as amended, approved March 20, 1903, and all fees and moneys which shall be hereafter collected under said act shall also be paid into said fund and held subject to the uses of said division of chemistry.

SEC. 18. If any section, subsection, sentence, clause, or phrase of this act is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this act. The legislature hereby declares that it would have passed this act, and each section, subsection, sentence, clause, and phrase thereof, irrespective of the fact that any one or more of the sections, subsections, sentences, clauses, or phrases be declared unconstitutional.

SEC. 19. An act to regulate the manufacture, sale, adulteration, and misbranding of insecticides or fungicides, or materials used for insecticidal or

fungicidal purposes, and to provide penalties for the infraction thereof, chapter six hundred fifty-three, California Statutes of 1911, approved May 1, 1911, and all amendments thereto and all other acts in conflict with this act are hereby repealed.<sup>3</sup>

Statutes and Amendments to Codes, 1921, ch. 729, pp. 1259-64.

## RULES AND REGULATIONS FOR CARRYING OUT THE PROVISIONS OF THE CALIFORNIA ECONOMIC POISON ACT OF 1921

### PROCLAMATION BY DIRECTOR OF AGRICULTURE

By virtue of the authority vested in the director of agriculture by section 3, California economic poison act of 1921, approved June 3, 1921 (statutes 1921, chapter 729), I, G. H. Hecke, director of agriculture of the State of California, do hereby proclaim that the following rules and regulations will be in full force and effect on and after the expiration of thirty days from date hereof, and after having been published in one or more newspapers and farm journals of general circulation in the State of California and sent to each person registered in compliance with the provisions of said act:

### GENERAL

#### 1. Interference with Agent.

No person shall interfere with, delay, or hinder, or attempt to interfere with, delay, or hinder the taking of samples of economic poisons, making analysis or examination thereof, making investigation concerning the use, sale, adulteration, or misbranding of economic poisons by the director of agriculture, his agents, or authorized representatives.

#### 2. Inspector.

Any agent or authorized representative of the State of California Department of Agriculture or any other person authorized by said department to collect samples of economic poisons shall be designated as an "inspector."

### COLLECTION OF SAMPLES

#### 3. Official Samples.

Official samples of economic poisons shall be those samples only which have been taken by the director of agriculture or by an inspector.

#### 4. Taking Samples.

Samples of economic poisons may be taken by an inspector from such places, at such times, and in such manner as in the opinion of the director of agriculture are necessary for the full enforcement of this act.

#### 5. Damage to Containers and Contents.

When it shall be necessary for an inspector to open any container for the purpose of obtaining a sample of economic poison, the inspector shall use reasonable care to avoid damage to said container and the material contained therein, but the State of California Department of Agriculture shall not be liable for unavoidable damage resulting therefrom.

#### 6. Claim for Value of Samples.

Any person from whom a sample or samples have been taken by an inspector shall have the right to file a claim against the State of California Department of Agriculture for the value of the sample or samples taken. Said claim shall be made by rendering an invoice of the sample or samples so taken. Said invoice must be rendered in triplicate and filed with said department within ten days after such sample or samples were taken.

#### 7. Method of Sampling.

In the absence of specific directions, the method of sampling of economic poisons shall be that determined upon by the mutual consent of the inspector taking the sample and the person from whom the sample is to be taken, or if the method of sampling can not be determined in such manner, the inspector shall determine the method of sampling but the person from whom the sample is being taken shall have the right to file a protest in writing with the chief of the division of agricultural chemistry of the State of Cali-

<sup>3</sup> The 1911 and 1919 laws are published in S. R. A., Insecticide Nos. 13 and 35, respectively.

fornia Department of Agricultural. If such protest is not received within ten days from the date upon which the sample was taken it shall be assumed that the sample was properly taken.

#### METHODS OF ANALYSIS

##### 8. Methods of Analysis.

Unless otherwise specified by the director of agricultural the methods employed for the examination or analysis of economic poisons shall be those prescribed by the chief of the division of agricultural chemistry. In case of dispute the results obtained by following an official or tentative method agreed upon by the association of official agricultural chemists shall be given the preference, provided there is such a method for the examination or analysis of the material under examination.

#### REGISTRATION

##### 9. When Application is Made.

No person shall be considered as having applied for a certificate of registration unless his application is accompanied by the required registration fee or a sufficient proof of the right to exemption therefrom.

##### 10. Proof of Exemption from Fee.

Any person claiming exemption from the payment of the annual registration fee under the provisions of section 12, upon demand of the director of agricultural, shall furnish such evidence as the director may require to establish the validity of such claim.

#### HEARINGS

##### 11. Kinds of Hearings.

Witnesses may be compelled to attend hearings, as provided for in this act, by issue of subpoena, or, attendance at a hearing may be voluntary, at the discretion of the director of agriculture.

##### 12. Subpoena of Witnesses.

In the subpoena of witnesses for attendance at a hearing the procedure shall be followed as provided for in section 353 of the Political Code of California as amended (chapter 602, Statutes of 1921, p. 1023).

#### VOLUNTARY HEARINGS

#### ADULTERATION AND MISBRANDING

##### 13. Reports of Analysis.

If after examination or analysis, a sample appears to be adulterated or misbranded, a report thereof may be given to the person from whom the sample was obtained, or to the person holding license for the manufacture or sale of the material, or to both parties and to such other interested parties as may seem advisable, but such report shall not be published until after ten days from the time the report has been rendered.

Comments or complaints concerning these reports must be made to the chief of the division of agricultural chemistry within ten days in order to receive consideration.

##### 14. Evidence of Adulteration or Misbranding.

When the chief of the division of agricultural chemistry has obtained sufficient evidence to prove beyond any reasonable doubt that an adulterated or misbranded economic poison has been sold or offered for sale, he shall present the facts to the director of agriculture.

##### 15. Notice of Hearing.

Upon the director of agriculture notifying any person that the person so notified has apparently violated section 2 of the act in regard to adulteration or misbranding, he shall also specify in such notice that such person so notified may request by registered letter a hearing on said matter, the time and place of said hearing to be fixed by the director of agriculture.

The person so notified may appear in person or by attorney and may submit oral or written evidence to show any fault or error in the findings of the examiner or analyst.

**16. Serving Notice of Hearings.**

Notices of hearings and findings in regard to adulteration or misbranding may be served in person by any authorized agent of the State of California Department of Agriculture or by registered mail sent to the last known address of the person to be notified.

At least ten days' notice shall be given prior to the holding of a hearing in regard to adulteration or misbranding.

## SELLING WITHOUT LICENSE OR LABEL

**17. Hearings by Inspector.**

If it appears that an economic poison has been sold or offered for sale without first having been registered as provided for in section 12, or has been sold or offered for sale without being properly labeled as provided for in section 9, a hearing may be held by an inspector at a time and place designated by the inspector.

In these cases, ten days notice of hearing shall not be required, but the length of time that a notice shall be given prior to the hearing shall be at the discretion of the inspector.

## ENFORCEMENT

**18. When Enforced.**

With the exception noted in regulations 19 and 20, all the provisions of this act will be enforced on and after the day this regulation becomes effective.

**19. Stocks on Hand.**

A reasonable length of time will be allowed for the disposal of stocks of unregistered economic poisons in the hands of dealers if purchased prior to the time this regulation becomes effective and are not adulterated or misbranded, provided a permit, in writing, authorizing such disposal has been obtained from the director of agriculture, or from a person authorized to issue such permit.

**20. Labeling Herbicides and Rodenticides.**

Labeling requirements in respect to substances intended to be used for the control or eradication of weeds and rodents will not be enforced prior to July 1, 1922.

In testimony whereof I have hereunto set my hand and caused the official seal of the department of agriculture to be affixed in Sacramento, California, this twenty-ninth day of December, 1921.

[SEAL.]

G. H. HECKE,  
Director of Agriculture.

## RULES AND REGULATIONS EFFECTIVE MARCH 15, 1922

*To whom it may concern:*

This is to certify that all of the provisions of section 3 of the California economic poison act of 1921 governing the promulgation of rules and regulations have been carried out in respect to the foregoing rules and regulations. Notice is hereby given that they will be in full force and effect on and after March 15, 1922.

STATE OF CALIFORNIA, DEPARTMENT OF AGRICULTURE,  
By GEO. P. GRAY, Chief, Division of Chemistry.

## CONNECTICUT

AN ACT Concerning the manufacture, sale, and transportation of adulterated or misbranded insecticides and fungicides

*Be it enacted by the senate and house of representatives in general assembly convened:*

SECTION 1. No person shall manufacture, sell, offer or expose for sale any Paris green, lead arsenate, or other insecticide, or any fungicide which is adulterated or misbranded within the meaning of this act.

SEC. 2. The term "insecticide" shall include any substance or mixture of substances intended to destroy or repel insects. The term "Paris green" shall include the product commercially known as Paris green and chemically known as aceto-arsenite of copper. The term "lead arsenate" shall include the products commercially known as lead arsenate consisting chemically of products derived from arsenic acid ( $H_3AsO_4$ ) by replacing one or more hydrogen atoms

by lead. The term "fungicide" shall include any substance or mixture of substances intended to lessen the growth of or destroy fungi.

SEC. 3. Paris green shall be deemed adulterated: (a) When it shall not contain at least fifty per centum of arsenious oxide ( $As_2O_3$ ) ; (b) when it shall contain arsenic in water-soluble forms equivalent to more than three and one-half per centum arsenious oxide ( $As_2O_3$ ) ; or (c) when any substance shall have been mixed and packed with it so as to reduce, lower, or injuriously affect its quality or strength. Lead arsenate, not dry or powdered, shall be deemed adulterated: (a) When it shall contain more than fifty per centum of water; (b) when it shall contain total arsenic equivalent to less than twelve and one-half per centum arsenic oxide ( $As_2O_5$ ) ; (c) when it shall contain arsenic in water-soluble forms equivalent to more than seventy-five one-hundredths per centum arsenic oxide ( $As_2O_5$ ) ; or (d) when any substance shall have been mixed and packed with it so as to produce, lower, or injuriously affect its quality or strength; provided lead arsenate and water shall not be deemed to be adulterated when such mixture shall contain more than fifty per centum of water if such mixture shall be labeled lead arsenate and water and the percentage of water shall be plainly and correctly stated on the label. Dry or powdered lead arsenate shall be deemed adulterated when it shall contain total arsenic equivalent to less than twenty-five per centum of arsenic oxide ( $As_2O_5$ ) and arsenic in water-soluble forms equivalent to more than one and one-half per centum of arsenic oxide ( $As_2O_5$ ). Insecticides and fungicides other than Paris green and lead arsenate shall be deemed adulterated: (a) When the strength or purity shall fall below the standard or quality under which it shall be sold; (b) when any substance shall have been substituted wholly or in part for the article described; (c) when any valuable constituent of the article shall have been wholly or in part abstracted; or (d) when it shall be intended for use on vegetation and shall contain any substance which, although destroying or repelling insects or lessening the growth of or destroying fungi, shall be injurious to vegetation upon which it may be used.

SEC. 4. The term "misbranded," as used in this act, shall apply to any insecticide or fungicide, or any article which shall enter into the composition of any insecticide or fungicide, the package or label of which shall bear any statement, design, or device regarding such article or any ingredient or substance contained therein which shall be false or misleading in any particular, including any statement, design, or device which shall be false or misleading as to the place of manufacture thereof. Any insecticide, other than Paris green or lead arsenate, and any fungicide shall be deemed misbranded: (a) When it shall contain arsenic in any of its combinations or in the elemental form and the amount of arsenic present shall not be stated on the label as the per centum of metallic arsenic; (b) when it shall contain arsenic in any of its combinations or in the elemental form and the amount of arsenic in water-soluble forms shall not be stated on the label as the per centum of metallic arsenic; (c) when it shall consist partially or completely of any inert ingredient which shall not destroy or repel insects or lessen the growth of or destroy fungi and shall not have the name and percentage amount of each of such inert ingredients plainly and correctly stated on the label; provided, in lieu of naming and stating the percentage amount of each inert ingredient, the producer may, at his discretion, state plainly on the label the correct name and percentage amount of each ingredient of the insecticide or fungicide having insecticidal or fungicidal properties and make no mention of the inert ingredients except to state the total percentage thereof.

SEC. 5. The dairy and food commissioner and the director of the Connecticut Agricultural Experiment Station, acting jointly, shall make all necessary rules and regulations for carrying out the provisions of this act, such rules and regulations to conform, where possible, to the rules and regulations of the Government of the United States authorized by the Federal insecticide act of 1910. Upon complaint or information of a violation of any provision of this act, submitted by the Connecticut Agricultural Experiment Station, said commissioner and said director shall hold a hearing thereon, giving reasonable notice and opportunity to any person accused of any violation hereof to be present and be heard. If said commissioner and said director shall be of the opinion that any person shall have committed a violation of any provision of this act, they shall place all evidence thereof which they shall have secured with any prosecuting authority having jurisdiction; but no person shall be penalized under the provisions of this act for selling or offering for sale any

article of insecticide or fungicide in the original unbroken package in which it was received by him, provided he shall establish a guaranty by the wholesaler, jobber, manufacturer, or other person residing in the United States, from whom any such article shall have been purchased, that such article is not adulterated or misbranded within the meaning of this act, which guaranty shall contain the name and address of the guarantor, but such guarantor shall be amenable to prosecution and penalties.

SEC. 6. Any person manufacturing, selling, offering, or exposing for sale any insecticide or fungicide in violation of any provision of this act shall be fined not more than two hundred dollars for the first offense and not more than three hundred dollars for each subsequent offense.

SEC. 7. The Connecticut Agricultural Experiment Station or the dairy and food commissioner, or both, or their deputies, may, upon tendering the market price thereof, take duplicate samples from any lot, parcel, or package of insecticide or fungicide which may be in the possession of any person. Each such sample shall be taken in the presence of the owner or his representative, and shall be sealed and properly marked for identification. One of such samples shall be left with the person from whom taken and the other shall be retained by the official taking the same. The Connecticut Agricultural Experiment Station shall annually analyze at least one sample of each brand of insecticide or fungicide so collected and such analysis shall include determinations of the active ingredients which the article contains, with such other determinations as may be deemed advisable. Results of such analyses shall be published in the bulletins of said Connecticut Agricultural Experiment Station, with such information regarding the character, composition, and use thereof as may be of interest or importance. Such bulletins shall be issued annually or at such other intervals as may be deemed advisable.

Approved June 4, 1923.

Public Acts, January session, 1923, ch. 258.

#### LOUISIANA

AN ACT To regulate the sale of Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides; to define the duties and powers of the commissioner of agriculture and immigration in relation to the suppression of adulteration and fraud in the sale of Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides in conformity therewith; to provide for the inspection and analysis of all Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides sold for use in the State of Louisiana, and for the payment by the seller of the inspection fee therefor; to provide for guarantees of the ingredients contained in Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides, and the affixing of stamps to the packages thereof as evidence of the guarantee and inspection thereof; to prohibit the sale of illegal and fraudulent Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides in violation of the provisions of this act; and affixing fines and penalties for the violation of the provisions of this act; to provide for judicial proceedings in rem against Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides sold in contravention of this act; to give the commissioner of agriculture and immigration a privilege thereon and right to writ of provisional seizure, to conserve said privilege, and to define the methods of said procedure; to provide for suits for the recovery of fines, penalties, and injunctions under this act; to provide for the distribution and expenditure of the fees and penalties and provide for the complete enforcement of the provisions of this act and the expenses incident thereto; and to repeal all laws and parts of laws in conflict therewith, in so far as they might operate in the future.

SECTION 1. *Be it enacted by the legislature of Louisiana,* That the commissioner of agriculture and immigration, hereinafter designated in this act as the commissioner, shall have power to make and establish rules, regulations, and standards to carry out the designs and purposes of this act and for the purpose of maintaining effective control over the manufacture and sale in this State of Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides, etc.

SEC. 2. That before any manufacturer, importer, jobber, firm, association, corporation, dealer, or person, etc., who shall sell, offer, or expose for sale, or distribution in this State, any Paris green calcium, arsenate, lead arsenate, or any other insecticide or fungicide, shall first register by filing with the commissioner the name of each brand of said preparation; the name and address of the manufacturer, importer, jobber, firm, association, corporation, dealer or person, etc.; the minimum per cent of arsenic or other toxic chemical or compound present; the specific name of each ingredient used in its manufacture and the weight of the packages in which the material is packed. The words "Paris green, calcium arsenate, lead arsenate, and all other insecti-

cides and fungicides," mentioned and used in this act shall apply only to insecticides and fungicides used on cotton, field crops, gardens, orchards, fruits, etc.; for the control or destruction of insect life and fungus diseases.

SEC. 3. That every manufacturer, importer, jobber, firm, association, corporation, dealer or person, etc., proposing to deal in Paris green, calcium arsenate, lead arsenate, or any other insecticides or fungicide, after filing the statement provided for with the commissioner shall receive from the said commissioner a certificate, stating that he has complied with the foregoing section; which certificate shall be furnished by the commissioner without any charge therefor.

SEC. 4. That every lot, package, or parcel of Paris green, calcium arsenate, lead arsenate, or any other other insecticide or fungicide, offered or exposed for sale or distributed within this State shall have affixed thereto a tag or label, in a conspicuous place on the outside thereof containing a legible and plainly printed statement in the English language clearly and truly certifying; (a) The net weight of the lot, package, or parcel; (b) the name, brand, or trade-mark; (c) the name and address of the manufacturer, importer, jobber, firm, association, corporation, dealer, or person, etc.; responsible for placing the commodity on the market; (d) the minimum per cent of arsenic or other toxic chemical or compound present; (e) the specific name of each ingredient used in its manufacture.

SEC. 5. The commissioner shall have the power to refuse to register any Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide under a name, brand, or trade-mark, which would be misleading or deceptive, or, which would tend to mislead as to the materials of which it is composed. Should any Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide be registered in the State and it is afterwards discovered that such registration is in violation of any of the provisions of this act, the commissioner may cancel such registration, or, may revoke and recall the certificate referred to in section three of this act. The commissioner shall have the power to refuse to allow any manufacturer, importer, jobber, firm, association, corporation, dealer, or person, etc., to lower the guaranteed analysis of any brand of Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide unless satisfactory reasons are presented to the commissioner for making such change or changes.

SEC. 6. That all manufacturers, importers, jobbers, firms, associations, corporations, dealers or persons, etc., for the purpose of defraying the expenses connected with the enforcement of this act and the inspection and analysis of Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides, shall pay to the commissioner the sum of fifty cents per one hundred pounds for Paris green and ten cents per one hundred pounds for calcium-arsenate, lead arsenate, and all other insecticides and fungicides. All moneys derived from this act shall be deposited with the fiscal agent of the commissioner and checked out by the commissioner in defraying the expenses of inspection, analysis, clerical assistance, and supervision as may become essential in the execution of the law, or, for such other purpose as may be deemed necessary by the commissioner; provided that not more than two-thirds of the total revenue received from the operation of this law shall be spent by the commissioner in the employment of inspectors, clerical assistance, etc., and not less than one-third shall be transmitted quarterly to the State chemist, which amount shall be deposited by him with the fiscal agent of the State experiment stations of the Louisiana State University and Agricultural and Mechanical College, and, used by the State chemist in providing necessary scientific and clerical assistance, laboratory equipment, etc.; for the analysis of the various materials covered by this act.

SEC. 7. Manufacturers, importers, jobbers, firms, associations, corporations, dealers, or persons, etc., who have registered their brands in compliance with section two of this act, shall forward to the commissioner a request for tax stamps, stating that the said stamps are to be used on brands of Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide registered and sold in accordance with this act, and said request shall be accompanied with the inspection tax, whereupon it shall be the duty of the commissioner to issue stamps to parties applying who shall attach said stamps to each lot, package, or parcel at shipping or selling point. All manufacturers, importers, jobbers, firms, associations, corporations, dealers, or persons, etc., are hereby forbidden to attach stamps described by this section to any lot, package or parcel of Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide which has not been previously registered as required

in section two of this act and which is not in accordance with all provisions of this act. The commissioner is hereby empowered to adopt a form for said stamps.

SEC. 8. That every manufacturer, importer, jobber, firm, association, corporation, dealer, or person, etc., who has registered Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide for sale within the State of Louisiana shall mail to the commissioner on forms, provided by the commissioner, within forty-eight hours of each sale, shipment, or delivery a statement showing the the official name of the insecticide or fungicide, the guaranteed analysis, the quantity and the name and address of the purchaser to whom sold, and the initials and numbers of the car, if sold in car lots.

SEC. 9. That the commissioner in person, or by deputy, shall have the power to enter into any car, warehouse, store, building, boat, vessel, or place supposed to contain insecticides or fungicides, for the purpose of inspecting or sampling, and shall have the power to take samples for analysis from any lot, package or parcel of insecticides or fungicides. It shall be unlawful for any person to oppose the entrance of said commissioner or deputy, or, in any way interfere with the discharge of his duty. All analysis shall be made by the official methods of the Association of Official Agricultural Chemists of the United States.

SEC. 10. It shall be unlawful for any manufacturer, importer, jobber, firm, association, corporation, dealer, or person, etc., to sell or offer for sale any Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide, without having attached thereto such tax stamps as are required by law, or, to use the required tax stamp a second time to avoid the payment of the tax, or to sell adulterated or misbranded Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide. Paris green, calcium arsenate, lead arsenate, and all other insecticides and fungicides shall be deemed to be misbranded if it carries any false or misleading statement upon or attached to the lot, package, or parcel, or, if any false or misleading statements concerning its value are made on the lot, package or parcel, or in any printed advertising matter issued by the manufacturer, importer, jobber, firm, association, corporation, déaler, or person, etc., that registered said Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungiside, or, if the number of net pounds set forth upon the package, lot, or parcel is not correct. It shall be the duty of the attorney general and the several district attorneys, when requested by the commissioner, to institute suit to enjoin any manufacturer, importer, jobber, firm, association, corporation, dealer or person, etc., resident or nonresident, from manufacturing or selling or soliciting orders for the sale of Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide, for use in this State without complying with all the provisions in this act, which injunction may be issued without bond or advance cost.

SEC. 11. That any Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide sold, offered, or exposed for sale within this State in violation of any provisions of this act shall be liable to seizure at the instance of the commissioner. Upon complaint being filed by the commissioner in person or by duly authorized deputy, with any district judge or a justice of the peace describing, the Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide and the place where it is believed said Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide is sold, offered, or exposed for sale in violation of the law, such district judge or justice of the peace shall issue his warrant directing and commanding the sheriff or any constable of his parish to search such place, and if the law is being violated to seize the Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide, and it shall be the duty of the officer to whom such warrant is delivered to search the place described in the warrant and to seize all Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide found therein which is in violation of the law, and if admission into such place is refused, the officer executing said warrant is hereby authorized to force open the same. If it shall appear at the hearing before the district judge or a justice of the peace who issued said writ that the Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide was sold, exposed, or offered for sale in violation of any provisions of this act, said Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide

shall be condemned and delivered to an officer or agent of the commissioner, to be sold by or under the direction of the commissioner, and the net proceeds paid to the insecticide and fungicide account of the commissioner for the purpose of enforcing the provisions of this act. The sale shall be made at the courthouse door in the parish in which the seizure is made. Said Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide shall be sampled and subjected to analysis, if necessary, or tagged or branded, and otherwise brought into compliance with the requirements of this act before being sold. The commissioner, however, may, in his discretion, release the Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide seized or condemned upon the payment of the required tax or charge and all costs and expenses incurred in any proceedings connected with such seizure and condemnation, and upon compliance with all other requirements of this act.

SEC. 12. That the director of the experiment stations of the Louisiana State University and Agriculture and Mechanical College shall be the State chemist as herein designated. A copy of the analysis of the State chemist or that of his assistant making the analysis of any Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide certified to by him shall be admissible as evidence in any court of the State on trial of any issue involving the merits of the insecticides and fungicides covered by this act.

SEC. 13. Nothing contained in this act shall interfere with Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide passing through the State in transit, nor shall apply to the delivery of materials to manufacturers of Paris green, calcium arsenate, lead arsenate, or any other insecticide or fungicide for manufacturing purposes.

SEC. 14. That any manufacturer, importer, jobber, firm, association, corporation, dealer, or person, etc., violating any provision or section in this act or any rule, regulation, or standard of the commissioner promulgated under this act, shall be deemed guilty of a misdemeanor and upon conviction, shall be fined not less than fifty dollars nor more than two hundred and fifty dollars for each offense.

SEC. 15. If any clause, sentence, paragraph, or part of this act shall, for any reason, be adjudged by any court of competent jurisdiction to be invalid, such judgment shall not affect, impair, or invalidate the remainder of this act, but shall be confined in its operation to the clause, sentence, paragraph, or any part thereof, directly involved in the controversy in which such judgment has been rendered.

SEC. 16. All laws and parts of laws in conflict herewith are hereby repealed, but as to offenses committed, liabilities already incurred and claims now existing thereunder, shall be and remain in full force and effect.<sup>4</sup>

Approved by the governor, July 15, 1924.

A true copy:

JAMES J. BAILEY,  
*Secretary of State.*

Acts, State of Louisiana, regular session, 1924, act No. 233, p. 459.

**STATE DEPARTMENT OF AGRICULTURE AND IMMIGRATION, BATON ROUGE, LA.,  
STANDARDS, RULES, AND REGULATIONS**

In accordance with act No. 233 of 1924 the department of agriculture and immigration has adopted the following standards for calcium arsenate, lead arsenate (dry powdered), and Paris green:

Calcium arsenate:

Total arsenic pentoxide, not less than 40 per cent.

Water soluble arsenic pentoxide, not more than 0.75 per cent.

Density, not less than 80 nor more than 100 cubic inches per pound.

Lead arsenate (dry powdered):

Not less than 25 per cent arsenic pentoxide.

Not more than 1.50 per cent water soluble arsenic pentoxide.

Paris Green:

Not less than 50 per cent arsenious oxide.

Not more than 3.50 per cent water soluble arsenious oxide.

The department will be glad to supply standards on application for other insecticides or fungicides, and will be glad to hear from manufacturers or other interested parties desiring such information.

<sup>4</sup>The 1904 law repealed by this act is published on p. 114 of S. R. A., Insecticide No. 13.

We give below a few important points that must be observed by parties that expect to sell insecticides and fungicides in Louisiana.

First, we desire to impress upon everyone the importance of placing first-class insecticides and fungicides on the market and of being certain that they are at least as good as the guarantee filed with the department.

Before offering insecticides or fungicides for sale it is necessary for manufacturers, jobbers, and other parties to first register with the department and secure a permit to do business in the State.

Before making shipments or sales they must have attached to the packages or containers inspection stamps secured from this office, and all information required by section 4 of act of No. 233 of 1924 must appear on the bag or container.

When shipments or sales are made the party responsible for the shipment must send notification to our inspection division, box 627, Baton Rouge, Louisiana.

The department will be glad to supply at all times any other information desired by interested parties that expect to handle insecticides or fungicides of any kind.

HARRY D. WILSON,  
Commissioner.

## NEW YORK

### CHAPTER 48

AN ACT In relation to farms and markets, constituting chapter 69 of the consolidated laws

[Became a law February 27, 1922, with the approval of the governor. Passed, three-fifths being present]

*The people of the State of New York, represented in senate and assembly, do enact as follows:*

#### CHAPTER 69 OF THE CONSOLIDATED LAWS

##### F FARMS AND MARKETS LAW

ARTICLE 1. Short title; definitions; matters of public interest (secs. 1-3).

ARTICLE 2. Department of farms and markets; jurisdiction; general powers and duties (secs. 4-31).

ARTICLE 3. Investigation; practice and procedure; violations; penalties (secs. 32-45).

\* \* \* \* \*

ARTICLE 11. Prevention of fraud in sale of insecticides and fungicides (secs. 148-151).

\* \* \* \* \*

##### ARTICLE 11

###### PREVENTION OF FRAUD IN SALE OF INSECTICIDES AND FUNGICIDES

SECTION 148. Definitions.

SECTION 149. Labeling of packages.

SECTION 150. Composition of Paris green or analogous products.

SECTION 151. Paris green, arsenate of lead, sulphur, lime sulphides, miscible combinations of mineral and vegetable oils, sulphate of copper, Bordeaux mixture, or any insecticide or fungicide or essential ingredient thereof to be analyzed.

SEC. 148. *Definitions.*—The term "insecticide" as used in this article shall include all substances or mixtures of substances intended to be used for destroying, repelling, or mitigating any and all insects which may infect vegetation. The term "fungicide" as used in this article shall include any substance or mixture of substances intended to be used for destroying, repelling, or mitigating any or all fungi or fungus diseases affecting any form of vegetation or vegetable products, providing that nothing herein shall be construed as contravening the provisions of the national pure food and drug law.

SEC. 149. *Labeling of packages.*—No person, firm, association, or corporation shall hereafter sell, offer, or expose for sale in this State any insecticide

or fungicide, unless the same is labeled or branded with the name and address of the manufacturer thereof and a statement which shall set forth so near as may be the percentages and chemical compositions of all essential substances or ingredients of said insecticides or fungicides or combinations of the same contained in said packages.

SEC. 150. *Composition of Paris green or analogous products.*—Paris green, or any products analogous to it, when sold, offered, or exposed for sale as such in this State, shall contain at least fifty per centum of arsenious oxide.

SEC. 151. *Paris green, arsenate of lead, sulphur, lime sulphides, miscible combinations of mineral and vegetable oils, sulphate of copper, Bordeaux mixture, or any insecticide or fungicide or essential ingredient thereof to be analyzed.*—The commissioner shall cause to have taken samples of the different brands of Paris green, arsenate of lead, sulphur, lime sulphides, miscible combinations of mineral and vegetable oils, sulphate of copper, Bordeaux mixture, or any insecticide or fungicide or essential ingredient thereof, and submit the same to the director of the New York State Agricultural Experiment Station, who shall analyze or cause to be analyzed such samples so delivered to him and shall report the result of the analysis forthwith to the commissioner.

\* \* \* \* \*

SEC. 296. *Laws repealed.*—Chapter nine of the laws of nineteen hundred and nine, entitled “An act in relation to agriculture, constituting chapter one of the consolidated laws”; chapter eight hundred and two of the laws of nineteen hundred and seventeen, entitled “An act in relation to farms and markets, constituting chapter sixty-nine of the consolidated laws”; articles two, two-a, thirteen, fourteen, fifteen, and twenty-five-a, and sections three hundred and ninety, three hundred and ninety-two, three hundred and ninety-three, three hundred and ninety-four, three hundred and ninety-five, and three hundred and ninety-seven, of chapter twenty-five of the laws of nineteen hundred and nine, entitled “An act relating to general business, constituting chapter twenty of the consolidated laws”; and sections forty-three, forty-six, forty-seven, forty-eight, and forty-nine, of chapter forty-nine of the laws of nineteen hundred and nine, entitled “An act in relation to the public health, constituting chapter forty-five of the consolidated laws”; and all acts and parts of acts amendatory thereof or supplemental thereto, are hereby repealed.

SEC. 297. *When to take effect.*—This chapter shall take effect April first, nineteen hundred and twenty-two.

Laws of New York, 1922, ch. 48.

(Previous laws of New York are published on pp. 134 and 825 of S. R. A., Insecticide Nos. 13 and 35, respectively.)

## NORTH DAKOTA

### FOOD COMMISSIONER AND CHEMIST

AN ACT To create the office of State food commissioner and chemist: providing for his appointment, term of office, removal, and salary; defining his powers and duties; defining the powers and duties of the State board of administration relating thereto; creating a State regulatory fund and providing for payments therefrom and repealing acts and parts of act in conflict with this act, and especially repealing sections 2 and 5 of chapter 200 of the session laws of 1915.

*Be it enacted by the legislative assembly of the State of North Dakota:*

SECTION 1. *State food commissioner and chemist, creation of office, assistants.*—The office of the State food commissioner and chemist is hereby created. It shall be the duty of the State board of administration, or such other body as may hereafter by law be designated as the governing body of the North Dakota Agricultural College, to appoint the said State food commissioner and chemist. The term of office of such appointee shall be two years but shall be subject to removal for cause without appeal by the governing body of the North Dakota Agricultural College. The said State food commissioner and chemist shall receive an annual salary of four thousand (\$4,000) dollars and shall qualify by taking an oath of office, the same to be filed in the office of the secretary of state and by furnishing a bond in the sum of ten thousand (\$10,000) dollars conditioned for the faithful performance of the duties of his office. The said State food commissioner and chemist may require any person employed by or responsible to him to furnish a bond for the faithful performance of his duties. The premiums on all such bonds shall be charged against the State regulatory fund hereinafter created.

The State food commissioner and chemist shall, with the approval of the State board of administration, employ and fix compensation of such other chemists, scientific experts, agents, inspectors and employees; provide for adequate laboratories and offices, supplies and equipment for the same, and provide such other facilities as may be necessary for the proper enforcement of any acts of which he may by law be charged. When in this act the term "agents" of the State food commissioner and chemist or similar terms are used, said terms shall be construed to refer to the chemists, scientific experts, agents, inspectors and employees provided for in this section.

The compensation and all necessary expenses of the State food commissioner and chemist and all other persons herein referred to for services rendered in connection with the enforcement of the provisions of any act, of which he may by law be charged, shall be paid out of the State regulatory fund and shall be apportioned among the various individual funds, making up the State regulatory fund, in proportion to the service rendered under each act, and such apportionment shall be approved by the State board of administration.

The State board of administration shall annually and on or before the first day of July of each year, prepare an annual budget covering the expenditures to be made during the next ensuing year from each of the several funds comprising the State regulatory fund, and such budget, as so made, shall be adhered to during such ensuing year.

The State food commissioner and chemist shall keep records showing the amount of money derived as fees under the provisions of each act under his enforcement and said records shall show the apportionment of all approved items of expense chargeable to the funds derived from each individual act.

Sec. 2. *State food commissioner and chemist, powers and duties.*—The duties of the State food commissioner and chemist shall be such as may be prescribed by law. Wherever in the laws of the State of North Dakota the food commissioner, the State food commissioner, director of the North Dakota Government Agricultural Experiment Station, director of the regulatory division of the North Dakota Agricultural College, director of the experiment station, food commissioner and State chemist, inspector of oils, inspector of hotels, or chief sanitary inspector, or similarly designated officers shall be granted any powers or charged with the performance of any duties in connection with the enforcement of any of the laws hereinafter specified or any acts amendatory thereof, said powers so vested in said officers shall be vested in the State food commissioner and chemist, and he shall perform all the duties required by these laws to be performed by any of said officers in connection with the enforcement of any of the following acts:

\* \* \* \* \*

CHAPTER 97, article 1, Penal Code, Compiled Laws of 1913; sections 10210 to 10224, inclusive.—Insecticide and fungicide law.

\* \* \* \* \*

Sec. 3. *State regulatory fund, creation of, expenses, how paid.*—All fees and moneys received by the State food commissioner and chemist under the provisions of any acts with the enforcement of which he may by law be charged, shall be properly recorded by him as herein provided and forwarded monthly to the treasurer of the State of North Dakota as provided by law. The State treasurer shall upon receipt thereof enter such funds and carry them in a special revolving fund to be designated the "State regulatory fund." All salaries and items of expense of whatever nature incurred in the enforcement of any act, as herein provided, shall be paid out of said State regulatory fund. Vouchers for all expenses, pay rolls, and other items of expense of whatever nature incurred by the State food commissioner and chemist in carrying out and enforcing the provisions of any act, shall be approved by said State food commissioner and chemist and shall be forwarded monthly to the State board of administration for audit and approval, and the same shall be certified to the State auditor who shall draw warrants upon the State treasurer for all pay rolls, expenses and bills so audited and approved. The State treasurer shall thereupon pay such expenses and accounts out of the State regulatory fund.

Sec. 4. *Repeals.*—All acts and parts of acts in conflict with this act and especially sections two and five of chapter 200 of the session laws of North Dakota of 1915, are hereby repealed.

Approved March 8, 1923.

\* \* \* \* \*

**SEC. 27. Specific repeals.**—The laws hereafter enumerated shall be expressly repealed from and after the taking effect of this act.

\* \* \* \* \* CHAPTER, 38, article 46, Political Code; sections 2926 to 2932, inclusive.<sup>5</sup>

**SEC. 28. Implied repeals, saving clause.**—All acts and parts of acts inconsistent with the provisions of this act and not herein expressly repealed are hereby repealed from and after the taking effect of this act.

Approved March 8, 1923.

Laws of North Dakota, 1923, ch. 220—222.

## OREGON

AN ACT To provide for the regulation of the manufacture and sale of any substance or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any and all insects, fungi, weeds, or other plant or animal pest, collectively or individually, which may infest or be detrimental to vegetation.

*Be it enacted by the people of the State of Oregon:*

SECTION 1. For the purpose of this act the following terms shall be construed respectively to mean:

(a) The singular and plural forms of any word or term in this act shall be interchangeable and equivalent within the meaning of the act.

(b) The word "person" shall include corporations, companies, societies, associations, partnerships, or any individual or combination of individuals. When construing and enforcing the provisions of this act, the act, omission, or failure of any officer, agent, servant, or other individual, acting for or employed by any person as above defined, within the scope of his employment or office shall, in every case, be deemed to be the act, omission, or failure of such person, as well as that of the officer, agent, servant, or other employee.

(c) The word "director" shall apply to the director of the agricultural experiment station of the State of Oregon.

(d) The term "economic poison" shall include any substance or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any and all insects, fungi, weeds, or other plant or animal pest, collectively or individually, which may infest or be detrimental to vegetation.

SEC. 2. It shall be unlawful for any person to manufacture, deliver, sell, expose, or offer for sale in this State any adulterated or misbranded economic poison which is adulterated or misbranded within the meaning of this act.

SEC. 3. (a) For the purposes of this act an economic poison shall be deemed to be adulterated:

1. If its strength or purity shall fall below the standard or quality under which it is sold.

2. If any valuable constituent of the article has been wholly or in part abstracted or omitted in its manufacture, or other materials substituted for the same.

(b) For the purposes of this act an economic poison shall be deemed to be misbranded:

1. If the package or label thereon shall bear any statement, design, or device regarding such article or the ingredients or substances contained therein which shall be false or misleading.

2. If such package or label is falsely branded as to name of manufacture, and as to city, State, or county in which the article is manufactured or produced.

3. If it is an imitation or offered for sale under the name of another article.

4. If when in package form and the contents are stated in terms of weight or measure, they are not plainly and correctly stated on the outside of the package.

5. If it does not state plainly upon the original package or label the correct name and percentage amounts of each and every active ingredient having insecticidal or fungicidal properties and the total percentage of inert ingredients present.

SEC. 4. Every original lot, parcel, or package of economic poison sold, offered or exposed for sale within this State shall be accompanied by a plainly printed label stating the name, brand, or trade-mark, if any there be, under which the economic poison is sold, the name and address of the manufacturer, importer, or dealer, and the place of manufacture.

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<sup>5</sup> Repeals the law in regard to adulterating formaldehyde published on p. 138, S. R. A., Insecticide No. 13.

SEC. 5. The director, in person or by his agents, shall administer and enforce the provisions of this act and shall make rules and regulations for carrying out the provisions of this act, including the collection and analysis or examination of samples, the registration of manufacturers and dealers, and other procedures not inconsistent with this act. No rule or regulation shall become effective until the expiration of thirty days after it shall have been first promulgated by a proclamation signed by the director and sent to each person registered in compliance with the provisions of this act.

SEC. 6. The director, in person or by his agents, shall take samples of economic poisons, make analyses or examinations thereof and shall publish the results obtained and such additional information as to him may seem advisable. The director, in person or by his agents, is hereby authorized to take samples and shall have access to all buildings used for the manufacture or sale of any economic poison.

SEC. 7. Before any economic poison is sold, offered or exposed for sale in this State, the manufacturer, importer, agent of, or dealer who causes the same to be sold, offered or exposed for sale shall obtain a certificate of registration from the director, authorizing the manufacture or sale of economic poisons in this State. Every manufacturer, importer, agent of, or dealer in economic poisons, except county, State, and Federal officials or employes, selling the same for cost, and further excepting dealers or agents of any economic poisons for which the manufacturer has filed certificate of registration and obtained license in accordance with the provisions of this act, shall pay to the director the sum of fifteen dollars (\$15) for each and every brand of economic poison to be sold, offered, or exposed for sale in the State during the calendar year and shall file a statement of the brands, trade-mark, and kinds of economic poisons intended to be manufactured or offered for sale, together with a statement of the correct names and percentage amounts of each and every active ingredient and the total percentage of inert ingredients contained therein. The director may, in his rulings, specify a flat license fee of fifty dollars (\$50) for any manufacturer who sells or offers for sale in the State four or more brands of economic poison. When any manufacturer, importer, agent of, or dealer in economic poisons has fully complied with the provisions of this act and the rules and regulations as provided, and makes application for registration, the director shall cause to be registered and issue a license to the applicant authorizing the manufacture and sale of economic poisons in the State. It shall be unlawful for any person, firm, or corporation to manufacture, sell, offer, or expose for sale any economic poison not registered and described as provided for in this section.

SEC. 8. The director shall have the power to cancel the registration of or to refuse to register any economic poison which has been shown to have little or no value for the purpose for which it is intended to be used, or which has been shown to be generally detrimental or seriously injurious to vegetation when used.

SEC. 9. Any economic poison that is condemned as being adulterated or misbranded within the meaning of this act, or detrimental to agriculture, shall be seized and disposed of in such manner as the court, after notice to all interested parties and hearings, may direct.

SEC. 10. Any person, firm, or corporation who shall violate any of the provisions of this act shall be guilty of a misdemeanor and, upon conviction thereof, shall be fined not less than fifty dollars (\$50) and cost of action for the first offense and not less than one hundred dollars (\$100) and cost of action for each subsequent offense.

SEC. 11. All money received from license fees and penalties under the provisions of this act shall be paid into the State treasury and credited to the economic poison fund, which is hereby created, and expended by the director for salaries, laboratory expenses, chemical supplies, traveling expenses, printing and such other expenses as may be found necessary in enforcing the provisions of this act.

SEC. 12. Sections 8894, 8895, 8896, 8897, 8898, 8899, 8900, 8901, 8902, and 8903, Oregon Laws, and all other acts and parts of acts in conflict herewith, are hereby repealed.<sup>6</sup>

SEC. 13. Whereas the active season for spraying fruit trees will begin on or about March 1, 1923, and it is necessary for the preservation and protection of fruit trees and other forms of plant life that the provisions hereof should

<sup>6</sup>The laws repealed by this act are published on p. 142, S. R. A., Insecticide No. 13.

be in effect on or prior to said date, an emergency is hereby declared to exist, and this act shall take effect from and after its approval by the governor.

Aproved by the governor February 21, 1923.

Filed in the office of the secretary of state February 22, 1923.

General Laws of Oregon, 1923, ch. 179, p. 252.

### SOUTH CAROLINA

AN ACT To amend section 1 of an act entitled "An act to regulate the sale and provide for the inspection of commercial disinfectants in the State of South Carolina," approved the 13th day of March, A. D. 1919.<sup>7</sup>

**SECTION 1. Act (1919, XXXI Stats. 114) amended—test of commercial disinfectants.—Be it enacted by the General Assembly of the State of South Carolina:** That section 1 of an act entitled "An act to regulate the sale and provide for the inspection of commercial disinfectants in the State of South Carolina," approved the 13th day of March, A. D. 1919, be, and the same is hereby, amended by inserting on line 3, between the words "disinfectant" and "be," the following: "By its nature subject to the test hereinafter provided for," and by placing at the end of section 1 a comma instead of a period, followed by the words, "or the Redial Walker Method," so that said section, when so amended, shall read as follows:

**SECTION 1.** That no commercial disinfectant, by its nature subject to the test hereinafter provided, be sold or offered for sale in South Carolina, unless it have plainly stamped upon the container the coefficient strength as compared with pure phenol, the said coefficient to be determined by the method employed by the hygienic laboratory of the United States Public Health Service, or the Redial Walker Method.

Approved the 12th day of March, A. D. 1920.

Acts of South Carolina, 1920, No. 626 (Code of Laws of South Carolina, vol. 3, 1922, Art. XII, secs. 3520-3526).

AN ACT To prescribe the manner in which calcium arsenate and other preparations for controlling, destroying, or preventing boll weevil or other injurious insects or plant diseases shall be sold, and providing punishment for the violations thereof

**SECTION 1. Sale of calcium arsenate and other arsenical preparations regulated.—Be it enacted by the General Assembly of the State of South Carolina:** That from and after the passage of this act it shall be unlawful for any person, persons, firm, or corporation to sell or offer for sale for boll-weevil control purposes within this State any substance or preparation represented to be calcium arsenate, or other arsenical preparations in dry powder form, unless the same shall comply with the specifications prescribed in the regulations of the South Carolina State Crop Pest Commission.

**SEC. 2. Specifications to be filed—labels.—**Any person, persons, firm, or corporation selling or offering for sale in this State any calcium arsenate, or any other material or preparation for the purpose of destroying, controlling, or preventing injurious insects or plant diseases, shall file specifications of same with the South Carolina State Crop Pest Commission and shall plainly label, tag, or mark each and every parcel, package, bottle, or other container, and in the case of calcium arsenate or other arsenical preparation in dry powder form said label, tag, or marking shall state the contents of the container in terms of the specifications prescribed by the South Carolina State Crop Pest Commission for calcium arsenate or other arsenical preparations in dry powder form; in case of other calcium arsenate preparations or other materials or preparations sold or offered for sale for the purpose of controlling, destroying, or preventing boll weevil or other injurious insects or plant diseases; said label, tag, or marking shall correctly state the chemical analysis of the contents of the container, and it shall be unlawful to offer any such preparations or materials unless they are so labeled or marked and unless the contents thereof are correctly stated in the label, tag, or marking required by this act.

**SEC. 3. Powers of State crop pest commission.—**The South Carolina State Crop Pest Commission shall enforce the provisions of this act and shall have full and plenary powers to determine, prescribe, and promulgate specifications of any and all materials covered by this act, including chemical composition, solubility, and physical properties, and to make such rules and

<sup>7</sup> This act is published on p. 826 of S. R. A., Insecticide No. 35.

regulations which said commission deems necessary to carry out the intent and purposes of this act.

SEC. 4. *Penalty for violation of act or regulations.*—Any person, persons, firm, or corporation violating the provisions of this act or the rules and regulations of the South Carolina State Crop Pest Commission promulgated to carry the purpose of this act into effect shall be guilty of a misdemeanor and shall be punished by a fine of not less than fifty (\$50) dollars or imprisoned for not less than ten (10) days, or both, at the discretion of any court having jurisdiction.

SEC. 5. *Penalties additional—Damages.*—The provisions as to the penalties in this act are in addition to the rights of the injured party to recover in a court of competent jurisdiction any damages sustained by reason of a violation of the provisions of this act or the rules and regulations of the South Carolina State Crop Pest Commission by any seller of the materials covered in this act, has damage to be determined by a jury.

SEC. 6. *Each sale, etc., a separate offense.*—Each and every sale or offer for sale in violation of the terms of this act or rules and regulations of the South Carolina State Crop Pest Commission shall be deemed and taken a separate and distinct offense and shall be punishable as such.

SEC. 7. All acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

SEC. 8. This act shall take effect immediately upon its approval by the governor.

Approved the 23d day of February, A. D. 1923.

Acts of South Carolina, 1923, No. 14.

**RULES AND REGULATIONS OF THE SOUTH CAROLINA STATE CROP PEST COMMISSION GOVERNING THE SALE OF CALCIUM ARSENATE AND OTHER PREPARATIONS FOR CONTROLLING, DESTROYING, OR PREVENTING BOLL WEEVIL, OR OTHER INJURIOUS INSECTS OR PLANT DISEASES**

[Under authority of an act of the General Assembly of South Carolina, approved February 3, 1923]

**ARSENICAL PREPARATIONS DEFINED**

Rule I (1). The term Arsenical Preparation shall include all materials and preparations containing arsenic and sold or offered for sale within this State for the purpose of controlling, destroying, or preventing boll weevil or other injurious insects or plant diseases.

**SPECIFICATIONS FOR CALCIUM ARSENATE IN DRY POWDER FORM**

**Calcium Arsenate Powdered.**

RULE I (2). Any person, persons, firm, or corporation, before selling or offering for sale in this State, calcium arsenate in dry powder form for controlling, destroying, or preventing boll weevil or other injurious insects or plant diseases, shall submit to the South Carolina Pest Commission, Clemson College, South Carolina, specifications of same in duplicate. These specifications shall be filed during the calendar year in which the calcium arsenate is offered for sale, and they shall state the percentage of arsenic pentoxide, the percentage of water soluble arsenic, and the density or dustibility of the material. The density or dustibility shall be determined either by what is known as the Government method for determining density of calcium arsenate, or by actually testing it through a dusting machine approved by the South Carolina State Crop Pest Commission or by the bureau of entomology, or both, at the discretion of the commission. The arsenic pentoxide content shall be not less than 40 per cent; water soluble arsenic shall not be over 0.75 of 1 per cent, while the density shall not be less than 80 and not more than 100 cubic inches per pound; and provided that when the calcium arsenate is dusted through an approved dusting machine it produces a fine, uniform dust cloud. Whenever the specifications are in compliance with this rule the original is filed in the office of the South Carolina State Crop Pest Commission, while the duplicate returned with acknowledgment shall be construed as the completion of the registration for the current calendar year.

SPECIFICATIONS OF ARSENICALS IN DRY POWDER FORM OTHER THAN CALCIUM ARSENATE

**Powdered Arsenate Other Than Calcium Arsenate.**

RULE I (3) Any person, persons, firm, or corporation before selling or offering for sale in this State any arsenical preparation in dry powder form other than calcium arsenate for the purpose of controlling, destroying, or preventing boll weevil or other injurious insects or plant diseases, shall submit to the South Carolina State Crop Pest Commission, Clemson College, South Carolina, in duplicate, a correct copy of the specifications and chemical analysis of the materials. The original is filed in the office of the South Carolina State Crop Pest Commission, while the duplicate is returned with acknowledgment.

SPECIFICATIONS OF PREPARATIONS OTHER THAN CALCIUM ARSENATE OR ARSENICALS IN DRY POWDER FORM

**Preparations Other Than Powdered Arsenicals or Calcium Arsenate.**

RULE I (4) Any person, persons, firm, or corporation, before selling or offering for sale within this State any preparation or materials other than calcium arsenate or arsenicals in dry powder form for controlling, destroying, or preventing injurious insects or plant diseases, shall submit to the South Carolina State Crop Pest Commission, in duplicate, a correct copy of the chemical analysis of the contents of the preparation and materials. Provided that in the case of preparations of materials sold for the purpose of controlling, destroying, or preventing the boll weevil, a chemical analysis of the poisonous ingredients only shall for the present be required. The original is filed in the office of the South Carolina State Crop Pest Commission and the duplicate returned with proper acknowledgment.

LABELING

RULE I (5) *Labeling of calcium arsenate in dry powder form.*—Every parcel, package, bottle, or other container of calcium arsenate in dry powder form sold or offered for sale for controlling, destroying, or preventing boll weevil or other injurious insects or plant diseases, shall have securely attached a label, tag, or marking, stating plainly the percentage of arsenic pentoxid, the percentage of water soluble arsenic pentoxid and the density, in cubic inches per pound, as determined by the Government method for determining the density of calcium arsenate.

*Labeling of preparations other than calcium arsenate in dry powder form.*—Every parcel, package, bottle, or other container of arsenical or other preparations other than calcium arsenate in dry powder form, sold or offered for sale within this State for the purpose of controlling, destroying, or preventing injurious insects or plant diseases, shall have securely attached a label, tag, or marking, plainly stating the correct chemical analysis of the material. Provided that in the case of preparations or materials sold for the purpose of controlling, destroying, or preventing the boll weevil, a chemical analysis of the poisonous ingredients only shall for the present be required. This refers to all materials other than calcium arsenate in dry powder form, regardless of whether they are in dry powder, paste, wet or other form.

ANALYSIS OF STATE CHEMIST PRIMA FACIE PROOF

RULE I (6) In the trial of any suit or action wherein is called in question the composition or density of any material sold or offered for sale in this State for the purpose of controlling, destroying, or preventing injurious insects or plant diseases, a certificate signed by the chief chemist of Clemson Agricultural College, setting forth the results of a chemical analysis or density test made by the chief chemist or under his direction, of the sample of the said material or preparation analyzed and tested under the provisions of these regulations shall be prima facie proof that the said material or preparation was of the consistency or density shown by the said analysis or density test.

WHO SHALL HAVE RIGHT TO HAVE MATERIALS ANALYZED

RULE I (7) Any citizen of this State who shall purchase any material or preparation for controlling, preventing, or destroying injurious insects or plant diseases shall have the right to have same analyzed for poisonous ingredients

and increase of calcium arsenate in dry powder form, have its density determined by the South Carolina State Crop Pest Commission, Clemson College, South Carolina.

#### SIZE OF SAMPLE

RULE I (8) Samples shall be taken as follows: Calcium arsenate or other materials in dry powder form not less than one pound; liquid, not less than one pint.

When taken from bulk it should be secured from various parts of the bulk so as to be an average representative. In case the materials are in cartons, drums, barrels, or other containers, materials to make sample should be taken from not less than five containers and from at least 10 per cent of the total number of containers of the material or preparation to be analyzed and tested. When sample is to be taken by the purchaser he shall give the manufacturer thereof, whose name and address appear on the container or containers or tags, at least six days notice in writing or by registered letter, of his intention to draw such sample, and in case of failure of said manufacturer to have a representative present within the time required, then in the presence of at least two disinterested witnesses, one to be chosen by such purchaser and one by the seller who shall certify that said sample or samples was taken from such material or preparation, which certificate, with the sample or samples, shall be sealed by a third disinterested party in the presence of said witnesses and directed to the South Carolina State Crop Pest Commission, Clemson College, South Carolina. If any seller, or vender, or manufacturer shall refuse, decline, or neglect to choose a witness as provided in this regulation after having been notified or requested six days before by such purchaser to do so, then he or they shall have forfeited every right to do so and such purchaser shall select two disinterested witnesses who shall select a third witness, who shall proceed to take samples as hereinbefore provided. Agents and deputies of the South Carolina State Crop Pest Commission are authorized to take samples any time or place.

#### DUPLICATE INVOICES REQUIRED

RULE I (9). All persons, firms, or corporations who sell calcium arsenate for transportation into the State of South Carolina shall forward to the South Carolina State Crop Pest Commission, Clemson College, South Carolina, within twenty four hours after the consignment has been accepted by common or private carrier, a duplicate invoice for each shipment. (Prices not required.)

#### REGISTRATION FOR EACH CALENDAR YEAR

RULE I (10). All persons, firms, or corporations who sell or offer for sale in the State of South Carolina, any insecticides, fungicides, or other materials for controlling, destroying or preventing injurious insects or plant diseases and which require registration of specifications under these regulations, shall register the specifications prior to shipment and during the same calendar year. Registration between January 1 and December 31 of one year shall not be valid for shipments made during the following calendar year.

#### PROCEDURE WHEN CALCIUM ARSENATE FAILS TO COMPLY

RULE I (11). Whenever any portion of a shipment of calcium arsenate in dry powder form fails to comply with the specifications provided in Rule 1-2 (2), then the entire shipment shall be held as condemned and the shipper and purchaser notified. Further samples shall be taken from the undelivered calcium arsenate at hand, also from materials already delivered. It shall be the duty of purchasers and owners to furnish any agent of this commission a complete list of parties to whom materials from such condemned shipments were sold, together with the amount, as well as the kind and capacity of the containers. When after thorough investigation any portion of the shipment is found in compliance, such portion may be released.

#### SOME STANDARDS ADOPTED FOR INSECTICIDES AND FUNGICIDES

RULE I (12) The following standards for insecticides and fungicides are adopted by the South Carolina State Crop Pest Commission:

## CALCIUM ARSENATE

Shall contain:

Not less than 40 per cent arsenic pentoxid.

Not more than 0.75 per cent water soluble arsenic pentoxid.

Density not less than 80 or more than 100 cubic inches per pound.

Shall be satisfactorily dustable through an approved dusting machine.

## LEAD ARSENATE (PASTE)

Shall contain:

Not less than 12.5 per cent arsenic pentoxid.

Not more than 0.75 per cent water soluble arsenic.

Not more than 50 per cent water.

*Provided, however,* That extra water may be added to lead arsenate (as described in this paragraph) if the resulting mixture is labeled arsenate and water, the percentage of extra water being plainly and correctly stated on the label.

## LEAD ARSENATE (DRY POWDER)

Shall contain:

Not less than 25 per cent arsenic pentoxid.

Not more than 0.75 per cent water soluble arsenic.

## PARIS GREEN

Shall contain:

Not less than 50 per cent arsenious oxide.

Not more than 3.5 per cent water soluble arsenic.

## WHAT CONSTITUTES A VIOLATION OF LAW

RULE I (13) Any spray or dust sold or offered for sale within this State for the purpose of controlling, destroying, or preventing injurious insects or plant diseases shall be deemed in violation of law if it fails to come up to the specifications filed with the State crop pest commission or the specifications on the label of the package.

## UTAH

## STATE BOARD OF AGRICULTURE

AN ACT Revising and codifying the laws of the State relating to livestock, including bees and the registration of stallions; agricultural seeds, crops and pests, noxious weeds, dairy and food, and kindred subjects relating to agriculture; creating a State board of agriculture and the office of commissioner of agriculture, providing the manner of their appointment, and prescribing their duties; amending \* \* \* section 7, chapter 82, Laws of Utah, 1919, relating to insecticides

*Be it enacted by the Legislature of the State of Utah:*

SECTION 1. *Sections amended.*—That sections 170 to 231, both inclusive, Compiled Laws of Utah, 1917, sections 2919 to 2935, both inclusive, Laws of Utah, 1917, be amended to read as follows:

SEC. 170. *Creation of board—membership—terms.*—A State board of agriculture is hereby created to consist of seven members, to be appointed by the governor by and with the advice and consent of the senate. The members of said board shall hold office for a term of four years and until their successors are appointed and qualified. Of the first appointed, three shall be appointed for a term of two years and four for a term of four years and thereafter appointments shall be made for a term of four years.

SEC. 171. *Organization—compensation.*—Within ten days after the appointment of said board they shall qualify by taking the constitutional oath of office and filing the same with the secretary of state, and shall meet and organize by electing one of their number president and one vice president. The board shall appoint a secretary. The board shall receive \$6 per day for days in actual attendance at meetings of the board, and actual necessary traveling expenses. The salary of the secretary shall be fixed by the board, subject to the approval of the State board of examiners.

SEC. 172. *Powers (agriculture, horticulture, crops, pests, etc.) (livestock, weights and measures, feeds and fertilizers, diseases, standards, factories, mills,*

*stores, hotels, etc.), inspection.*—The State board of agriculture shall have the following powers:

1. To execute and enforce all laws of the State relating to agriculture, including horticulture, crops, and pests and related subjects; livestock, including sheep, swine, poultry, and bees, and related subjects; weights and measures, commercial feeding stuffs and commercial fertilizers.

\* \* \* \* \*

## CHAPTER 8

### INSECTICIDES<sup>8</sup>

SEC. 6. *Section amended.*—That section 7, chapter 82, Laws of Utah, 1919, be amended to read as follows:

SEC. 7. *Enforcement of chapter.*—The State board of agriculture shall carry out and enforce the provisions of this chapter, shall make such rules and regulations as are necessary therefor, and shall collect for examination specimens of insecticides and fungicides manufactured or offered for sale within the State.

Laws of Utah, 1921, ch. 2-8.

STATE BOARD OF AGRICULTURE,  
BUREAU OF PLANT INDUSTRY.

### REGULATIONS—QUARANTINES

#### SECTION 6. RULES AND REGULATIONS OF STATE BOARD OF AGRICULTURE, BUREAU OF PLANT INDUSTRY

\* \* \* \* \*

##### *Regulation No. 8, insecticide and fungicide.*

1. Crop-pest inspectors may secure samples of insecticides or fungicides for purposes of inspection and analysis under the following conditions:

(a) All samples must be secured by purchase and a receipt taken in each case.

(b) Purchases must be made during the regular business hours of the dealer.

(c) Purchases must be made under the same conditions in which any other customer may obtain the same material.

(d) Packages or containers must be purchased in their original sealed condition except as under paragraph (2).

(e) Packages or containers with broken seals shall not be barred from the market nor taken up for inspection and analysis if such breakage is limited to a few packages apparently broken in shipping to the dealers.

2. Insecticides and fungicides sold in bulk or in packages or containers on which a noticeably or unusually large number of seals have been broken should be subjected to inspection and analysis as follows:

(a) Representative samples should be obtained in separate packages or containers and labeled by the dealer.

(b) Samples so purchased should be carefully wrapped by the dealer at the time of purchase.

(c) Samples should be packed and shipped to the State inspector without removing the original wrappings of the dealer.

(d) Packages or containers with broken seals should be carefully weighed and their weights compared with those of the sound packages or containers. The weights should be reported at the time samples are sent to the State inspector.

(e) Samples should contain a minimum of 1 pound of dry material or 1 pint of liquid.

(f) Samples should be representative of the contents of the bulk package. They should be labeled exactly as if sold to any other customer.

(g) Samples must be accompanied by a statement from the dealer as to the nature of the contents. His statement of contents can be merely a correct copy of the manufacturer's label as same appears on the original package or container.

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<sup>8</sup> The 1919 law is published on p. 830 of S. R. A., Insecticide No. 35.

3. Dealers engaged in the sale of insecticides and fungicides may submit samples of these commodities for inspection and analysis by following the instructions of paragraphs 1 and 2: *Provided further,*

(a) That samples submitted by dealers shall not be paid for by the board nor its county inspectors.

(b) That a reasonable charge for such inspection and analysis at the discretion of the State inspector will be borne by the dealer submitting the samples.

## VIRGINIA

CHAP. 477. AN ACT To prevent the manufacture, sale, or transportation within the Commonwealth of adulterated or misbranded Paris greens, lead arsenates, lime-sulphur compounds, or other insecticides and fungicides, and regulating traffic therein; providing for inspection of such materials and imposing penalties

Approved March 27, 1922.

SECTION 1. *Be it enacted by the General Assembly of Virginia, That it shall be unlawful for any person to manufacture, sell, or offer for sale, within the Commonwealth, any insecticide or fungicide which is adulterated or misbranded, within the meaning of this act.*

SEC. 2. *That it shall be unlawful for any person to defraud any other person by knowingly or recklessly misrepresenting the value of any treatment applied to trees, shrubs, vines, or other plant material, or to any animal, for preventing, destroying, repelling, or mitigating any insect, fungus, or bacterial disease, or for accelerating its growth or productive powers.*

SEC. 3. *That the commissioner of agriculture and immigration shall promulgate uniform rules and regulations for enforcing this act, including the collection and examination, by existing agencies, of insecticides and fungicides, manufactured or offered for sale in the Commonwealth, for the purpose of determining whether such articles are adulterated or misbranded within the meaning of this act; and, if it shall appear after such examination that any of such specimens are adulterated or misbranded within the meaning of this act, the commissioner of agriculture and immigration shall cause notice thereof to be given to the person from whom such sample was obtained. Any person so notified shall be given an opportunity to be heard at a designated time and place; and, if it appears that any of the provisions of this act have been violated, the commissioner of agriculture and immigration shall cause the certification of such facts to the proper court, with a copy of the results of the analysis or examination, authenticated by the analyst or expert, under oath. Results of analysis or examinations of insecticides and fungicides may be published under the direction of the commissioner of agriculture and immigration.*

SEC. 4. *That for the purposes of this act the word "person" shall include corporations, companies, societies, associations, partnerships, or any individual or combination of individuals.*

SEC. 5. *That the term "insecticides," as used in this act, shall include any substance, or mixtures of substances, intended to be used for preventing, destroying, repelling, or mitigating any insects which may infest vegetation, man or animals, or households, or be present in any environment whatsoever. The term "Paris green," as used in this act, shall include the product sold in commerce as Paris green and chemically known as the aceto-arsenite of copper. The term "lead arsenate," as used in this act, shall include the product or products sold in commerce as lead arsenate and consisting chemically of products derived from arsenic acid by replacing one or more hydrogen atoms by lead. That the term "fungicide," as used in this act, shall include any substance or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any and all fungi that may infest vegetation, man or animals, or be present in any environment whatsoever.*

SEC. 6. *That, for the purpose of this act, an article shall be deemed to be adulterated:*

*In the case of Paris green. First: If it does not contain at least fifty per centum of arsenious oxide; second, if it contains arsenic in water-soluble forms equivalent to more than three and one-half per centum of arsenious oxide; third, if any substance has been mixed and packed with it so as to reduce or lower or injuriously affect its quality or strength.*

*In the case of lead arsenate paste. First: If it contains more than fifty per centum of water; second, if it contains total arsenic equivalent to less than*

twelve and one-half per centum of arsenic oxid; third, if it contains arsenic in water-soluble forms equivalent to more than seventy-five one-hundredths per centum of arsenic oxid. In the case of dry powdered lead arsenate. First: If it contains total arsenic equivalent to less than twenty-five per centum of arsenic oxid; second, if it contains arsenic in water-soluble forms equivalent to more than one hundredth per centum of arsenic oxid; fourth, if any substances have been mixed and packed with either form of arsenate of lead so as to reduce, lower, or injuriously affect its quality or strength: *Provided, however,* That extra water may be added to lead arsenate (as described in this paragraph), if the resulting mixture is labeled lead arsenate and water, the percentage of extra water being plainly and correctly stated on the label.

In the case of insecticides or fungicides other than Paris green and lead arsenate. First: If its strength, purity, or efficacy fall below the professed standard or quality under which it is sold; second, if any substance has been substituted wholly or in part for the article; third, if any valuable constituent of the article has been wholly or in part abstracted; fourth, if it is intended for use on vegetation, and shall contain any substance or substances which, although preventing, destroying, repelling, or mitigating insects or fungi, shall be injurious to such vegetation when used under normal conditions according to the direction of the manufacturer.

Sec. 7. That the term "misbranded," as used herein, shall apply to all insecticides, Paris green, lead arsenates, or fungicides, or articles which enter into the composition of insecticides or fungicides, the package, label, or accompanying descriptive circulars of which shall bear any statement, design, or device regarding such article, or the ingredients or substances contained therein, which shall be false or misleading in any particular, and to all insecticides, Paris greens, lead arsenates, or fungicides, which are falsely branded as to the State, Territory, or country in which they are manufactured or produced.

That, for the purposes of this act, an article shall be deemed to be misbranded:

In the case of insecticides, Paris green, lead arsenates, and fungicides. First: If it be an imitation or offered for sale under the name of another article; second, if it be labeled or branded so as to deceive or mislead the purchaser, or if the contents of the package as originally put up shall have been removed in whole or in part, and other contents shall have been placed in such package; third, if the quantity of the contents be not plainly and correctly marked on the outside of the package, in terms of weight, measure, or numerical count.

In case of insecticides and fungicides. First: If the correct names and percentage amounts of each and every ingredient of the insecticides or fungicides having insecticidal or fungicidal properties are not plainly stated on the label; second, if it contains arsenic in any of its combinations or in the elemental form, and the amount of arsenic in water-soluble form (expressed as per centum of metallic arsenic or arsenic oxid) is not stated on the label; third, if it consists, partially or completely of an inert substance or substances which do not effectively prevent, destroy, or repel insects or fungi, and does not have the names and percentage amounts of each and every one of such inert ingredients, and the fact that they are inert, plainly and correctly stated on the label: *Provided, however,* That in lieu of naming and stating the percentage amounts of each and every inert ingredient the producer may state on the label the total percentage of inert ingredients present and the fact that they are inert.

Sec. 8. That any insecticide or fungicide that is condemned as being adulterated or misbranded within the meaning of this act shall be confiscated and disposed of by destruction, or in such other manner as the court may direct.

Sec. 9. Any person who shall violate any of the provisions of this act, or any rule or regulation of the commissioner of agriculture and immigration promulgated under this act, shall be guilty of a misdemeanor, and shall, upon conviction thereof, be fined not to exceed two hundred dollars for the first offense; and, upon conviction for each subsequent offense, be fined not to exceed three hundred dollars or sentenced to imprisonment for not to exceed one year, or both such fine and imprisonment in the discretion of the court.

Acts of the Assembly, 1922, ch. 477, p. 814.

## WASHINGTON

## HORTICULTURE

AN ACT Relating to horticulture and horticultural products and amending sections 2841, 2842, 2843, 2845, 2854, 2855, 2858, and 2872 of Remington's Compiled Statutes

*Be it enacted by the Legislature of the State of Washington:*

\* \* \* \* \*

SEC. 4. That section 2845 (session laws, 1919, ch. 195, p. 662) of Remington's Compiled Statutes be amended to read as follows:

SEC. 2845. It shall be unlawful for any person to offer for sale in the State of Washington any horticultural insecticide or fungicide which is adulterated or misbranded within the meaning of this act. The term "insecticide" as used in this act shall include any substance or mixture or substances intended to be used for preventing, destroying, repelling, or mitigating any insects which may infest vegetation. The term "Paris green" as used in this act shall include the product sold in commerce as Paris green and chemically known as the acetoarsenite of copper. The term "lead arsenate" as used in this act shall include the product or products sold in commerce as lead arsenate and consisting chemically of products derived from arsenic acid ( $H_3AsO_4$ ) by replacing one or more hydrogen atoms by lead. That the term "fungicide" as used in this act shall include any substance or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any and all fungi that may infect vegetation or be present in any environment whatsoever.

It shall be unlawful for any manufacturer, firm, corporation, or person to sell, offer, or expose for sale in this State an insecticide, fungicide, or any materials to be used for preventing, destroying, repelling, or mitigating insects, fungi, bacteria, or other plant pests, unless such material shall have affixed to each and every package or container, in a conspicuous place on the outside thereof, a plainly printed statement as follows:

- (1) The name, brand, or trade-mark under which it is sold.
- (2) The purpose for which it is to be used.
- (3) Direction for its application.
- (4) The name and principal address of the manufacturer or person responsible for placing the commodity on the market.
- (5) The net weight of the contents of the package.
- (6) The correct statement of the character and name of each insecticidal or fungicidal ingredient used and the minimum per centum of such active ingredients and the maximum per centum of the inert ingredients contained in the package.

It shall be unlawful for any person, firm, or corporation to sell, offer for sale or to apply to trees or plants by boring holes or otherwise for compensation any material as a horticultural insecticide or fungicide which relies for its effectiveness on being transferred throughout the tree or plant by the sap thereof without having demonstrated to the satisfaction of the State insecticide and fungicide board the effectiveness thereof and without furnishing the purchaser thereof a printed statement describing the material in the same manner as listed above for other insecticides or fungicides sold in closed packages.

\* \* \* \* \*

Approved by the governor February 28, 1923.

Session laws of Washington, 1923, ch. 37, p. 84.

## HORTICULTURE

AN ACT Relating to horticulture and horticultural plants and products and the protection thereof, and providing for the enforcement of the provisions hereof and amending sections 1, 2, 3, 5, 14, 16, 17, 18, 27, and 30, chapter 166, Laws of 1915, and sections 2 and 29 of chapter 166, Laws of 1915, as amended by sections 1 and 4 of chapter 195, Laws of 1919

*Be it enacted by the Legislature of the State of Washington:*

\* \* \* \* \*

SECTION 11. That section 30 of chapter 166 of the Laws of 1915 be amended to read as follows:

SEC. 30. Every person violating or failing to comply with the provisions of this act or any obligatory rule or regulation shall be deemed guilty of a mis-

demeanor, and upon conviction thereof shall be fined in any sum not less than \$50, nor more than \$500. All fines imposed under the provisions of this act shall, when collected, be paid to the treasurer of the county where imposed to be placed in the current expense fund of such county and to be used to assist in defraying the expenses of horticultural inspection.

Sec. 12. That section 31 of chapter 166 of the Laws of 1915 be amended to read as follows:

Sec. 31. Whenever any person is about to or threatens to violate any provision of this act, or any obligatory rule or regulation, the commissioner of agriculture may, with the advice of the prosecuting attorney of the county where such violation is threatened or of the attorney general, begin an action in the superior court of such county in the name of the State upon the relation of such commissioner to restrain and enjoin such threatened violation, and in case such prosecuting attorney shall fail or refuse to begin such action upon the request of the commissioner, the same may be begun by or under the direction of the attorney general. In such action no bond shall be required for the issuance of a restraining order or injunction, but the State shall be liable for any damages occasioned by the unlawful suing out of such restraining order of injunction.<sup>9</sup>

Approved by the governor March 19, 1921.

## WISCONSIN

### INSECTICIDE AND FUNGICIDE LAW

The following statute was adopted by the 1923 Wisconsin Legislature and became effective about July 1, 1923. It is an amendment of statutes which were formerly numbered 1494-o to 1494-10w, inclusive, and is enforced by the divisions of entomology and chemistry in cooperation with State department of agriculture.

Sec. 152. Section 1494-10o of the statutes is renumbered to be section 96.50 and is amended to read:

96.50. *Insecticides and fungicides, adulteration or misbranding.*—\* \* \* (1) It shall be unlawful for any person \* \* \* to manufacture, sell, or offer for sale \* \* \* within the State of Wisconsin any insecticide \* \* \* or fungicide which is adulterated or misbranded within the meaning of sections \* \* \* 96.50 to 96.54 \* \* \*.

Sec. 153. Section 1494-10t of the statutes is renumbered to be section 96.51 and is amended to read:

96.51. *Definition of terms.*—\* \* \* The term "insecticide" as used in sections \* \* \* 96.50 to 96.54 shall include any substance or mixture of substances intended to be used for preventing, destroying, repelling, or mitigating any insects which may infest vegetation, man or other animals, or households, or be present in any environment whatsoever. The term "Paris green" \* \* \* shall include the product sold in commerce as Paris green and chemically known as the acetoarsenite of copper. The term "lead arsenate" \* \* \* shall include the product or products sold in commerce as lead arsenate and consisting chemically of products derived from arsenic acid ( $H_3AsO_4$ ) by replacing one or more hydrogen atoms by lead. The term "fungicide" \* \* \* shall include any substance or mixture \* \* \* intended to be used for preventing, destroying, repelling, or mitigating any \* \* \* fungus that may infest vegetation or be present in any environment whatsoever.

Sec. 154. Section 1494-10u of the statutes is renumbered to be section 96.52 and is amended to read:

96.52. *Adulteration defined.*—\* \* \* For the purpose of sections \* \* \* 96.50 to 96.54 \* \* \* any article shall be deemed to be adulterated:

(1) In the case of Paris green. First: If it does not contain at least fifty per cent of arsenious oxide; second, if it contains arsenic in water-soluble forms equivalent to more than three and one-half per cent of arsenious oxide; third, if any substance has been mixed and packed with it so as to reduce or lower or injuriously affect its quality or strength.

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<sup>9</sup> Session laws of Washington, 1921, ch. 141, p. 507. (Remington's Compiled Statutes of Washington, 1922, vol. 2, Ch. XII.)

(2) In the case of paste lead arsenate. First: If it contains more than fifty per cent of water; second, if it contains total arsenic equivalent to less than twelve and one-half per cent of arsenic oxide ( $\text{As}_2\text{O}_5$ ); third, if it contains arsenic in water-soluble forms equivalent to more than seventy-five one hundredths per cent of arsenic oxide; \* \* \* fourth, if any substances have been mixed and packed with it so as to reduce, lower, or injuriously affect its quality or strength; that extra water may be added to paste lead arsenate \* \* \* if the resulting mixture is labeled lead arsenate and water, the percentage of extra water being plainly and correctly stated on the label.

(4) \* \* \* In the case of insecticides or fungicides, other than Paris green and lead arsenate. First: If its strength or purity fall below the professed standard or quality under which it is sold; second, if any substance had been substituted wholly or in part for the article; third, if any valuable constituent of the article has been wholly or in part abstracted; fourth, if it is intended for use on vegetation and shall contain any substance or substances which, although preventing, destroying, repelling, or mitigating insects, or fungi, shall be injurious to such vegetation when used.

SEC. 155. Section 1494-10v of the statutes is renumbered to be section 96.53 and is amended to read:

96.53. *Misbranding defined.*—\* \* \* (1) The term "misbranded" as used herein shall apply to all insecticides, Paris green, lead arsenates, or fungicides, \* \* \* and articles which enter into the composition of insecticides or fungicides, the package or label of which shall bear any statement, design, or device regarding such article or the ingredients or substances contained therein which shall be false or misleading in any particular, and to all insecticides, Paris greens, lead arsenates, or fungicides which are falsely branded as to the State, Territory, or country in which they are manufactured or produced.

(2) For the purpose of sections \* \* \* 96.50 to 96.54, an article shall be deemed to be misbranded:

(a) In the case of insecticides, Paris greens, lead arsenates, and fungicides. First: If it be an imitation or offered for sale under the name of another article; second, if it be labeled or branded so as to deceive or mislead the purchaser, or if the contents of the package as originally put up shall have been removed in whole or in part and other contents shall have been placed in such package; third, if \* \* \* the quantity of the contents \* \* \* be not plainly and correctly stated on the outside of the package.

(b) In the case of insecticides (other than Paris green and lead arsenate) and fungicides. First: If it contains arsenic in any of its combinations or in the elemental form, and the total amount of arsenic present (expressed as per cent of metallic arsenic) is not stated on the label; second, if it contains arsenic in any of its combinations or in the elemental form and the amount of arsenic in water-soluble form (expressed as per cent of metallic arsenic) is not stated in the label; third, if it consists partially or completely of an inert substance or substances which do not effectively prevent, destroy or repel \* \* \* insects or fungi, and does not have the names and percentage amounts of each and every one of such inert ingredients, and the fact that they are inert plainly and correctly stated on the label: *Provided*, That in lieu of naming and stating the percentage amount of each and every inert ingredient, the producer may at his discretion state plainly upon the label the correct names and percentage amounts of each and every ingredient of the insecticide or fungicide having insecticidal or fungicidal properties, and make no mention of the inert ingredients, except in so far as to state the total percentage of inert ingredients present.

SEC. 156. Section 1494-10s of the statutes is renumbered to be section 96.54 and is amended to read:

96.54. *Immunity by wholesaler's guaranty.* \* \* \* (1) No dealer or agent shall be prosecuted under the provisions of section \* \* \* 96.50 to 96.54, when he can establish a guaranty signed by the wholesaler, jobber, manufacturer, or other \* \* \* person residing in the United States, from whom he purchased such articles, to the effect that the same is not adulterated or misbranded within the meaning of sections 96.50 to 96.54. \* \* \* Said guaranty, to afford protection, shall contain the name and address of the \* \* \* person making the sale of such articles to such dealer or agent, and in such case said \* \* \* person shall be amenable to the \* \* \* fines and other penalties, which would otherwise attach \* \* \* to the dealer or agent \* \* \*.

SEC. 157. Section 1494—10p of the statutes is renumbered to be section 96.55 and is revised to read:

96.55 *Penalty.*—Any person who shall violate any of the provisions of sections 96.50 to 96.54, or any rule or regulation of the commissioner of agriculture promulgated under it shall be fined not to exceed two hundred dollars for the first offense; and upon conviction for each subsequent offense be punished by a fine not exceeding three hundred dollars, or imprisonment for not to exceed one year, or by both such fine and imprisonment.

SEC. 158. Section 1494—10r of the statutes is repealed.<sup>10</sup>

Laws of Wisconsin, 1923, ch. 152, p. 302.

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<sup>10</sup> The laws for 1911 and 1915 are published in S. R. A., Insecticide Nos. 13 and 21, respectively.



# United States Department of Agriculture

## INSECTICIDE AND FUNGICIDE BOARD

### SERVICE AND REGULATORY ANNOUNCEMENTS<sup>1</sup>

#### No. 55

[Approved by the Acting Secretary of Agriculture, Washington, D. C., June 2, 1926]

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<sup>1</sup> Free distribution will be limited to firms, establishments, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each.

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Disinfectant, "Anti-germ": United Chemical Companies (John M. Baptiste and Mary S. Baptiste, trading as).....	889 Disinfectant, "Conkey's Nox-I-Cide": Conkey Co., G. E.....
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Disinfectant, "Chlorinated Lime" or bleaching powder, Crescent brand: Fuller, Morrison Co. (consignor).....	451 Disinfectant dip, American: American Live Stock Powder Co.....
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178	Disinfectant, "Nox-I-Cide": Conkey Co., The G. E.	960
905	Disinfectant No. 1: Chemical Supply Co. (The Weige Co., trading as)	Disinfectant, rudsische hydro (cre) sol: White Tar Co.
765	Disinfectant No. 1: Chemical Supply Co.	812
905	Disinfectant No. 1: The Weige Co. (trading as Chemical Supply Co.)	Disinfectant, "Russoline": Rust, William H.
768	Disinfectant, oil, pine, soluble: Chemical Supply Co.	37
484	Disinfectant, O. K. formaldehyde purifier liquid: O. K. Purifier Co. (George F. Chapman, trading as)	Disinfectant, "San-O-La": Rochester Germicide Co.
711	Disinfectant, O. K. sterilizer: O. K. Sterilizer Co. (Arthur Chichester McCartney, J. Clifford Baker, Frank W. Knight, Raymond A. McMillan, and Leon M. Somes, trading as)	208
452	Disinfectant, "Ozol": Sunbeam Chemical Co.	Disinfectant, "Sanitary floor dressing": Chemo Co.
326	Disinfectant, "Ozonee": Bronson Chemical Co. (trading as Richard H. Ryder and Bowen P. Ryder)	661
253	Disinfectant, "Parafarm Candle": De Pree Chemical Co., The	Disinfectant, sanitas: Sanitas Co., The
945	Disinfectant, perfection chemical: Chemical Toilet Corporation	Disinfectant, "Sanitas crudeliquid": Sanitas Disinfectants Co.
312	Disinfectant, "Perfumed Antozone": Antozone Chemical Co.	Disinfectant, "Sanitas sawdust": Sanitas Disinfectants Co.
13	Disinfectant, "Pheno-Chloro": International Stock Food Co.	Disinfectant, "Sanitoria": Snowden Chemical Co. (James R. Snowden trading as)
626, 916	Disinfectant, "Phenolene": Sherwin-Williams Co.	Disinfectant, "Samoc": Formacone Co.
524	Disinfectant, "Phenol Sodique": Hance Bros. & White (Edward H. Hance and Anthony M. Hance, trading as)	Disinfectant, "San tox liquid germicide": De Pre Chemical Co., The
16	Disinfectant, "Phenol Sodique": Hance, Anthony M. (trading as Hance Bros. & White)	306
297	Disinfectant, phinotas: Phinotas Chemical Co.	Disinfectant, "Saola": Tilden Co., The
513	Disinfectant, pine: Phinotas Chemical Co.	Disinfectant, "Sapokarbolin": Ferromann Chemical Co.
454	Disinfectant, pine liquid, Robbins: Robbins Disinfectant Co., Geo. H. (Jennie I. Ralston, trading as)	Disinfectant, "Sapozol": Auto-Laks Disinfecting Co.
355	Disinfectant, pine oil: Santyline Chemical Co.	Disinfectant, security carbolized: McCann, William
496	Disinfectant, pine oil: Zobel Co., Ernest	38
218	Disinfectant, pine oil, soluble: Chamberlain Co., The	Disinfectant, "Septico": Parke, Davis & Co.
485	Disinfectant, pine oil, soluble: Warren Refining & Chemical Co.	Disinfectant, Showmaker's: Shoemaker & Co., Robert (Richard M. Shoemaker, Thomas E. Shoemaker, and Benjamin H. Shoemaker, trading as)
496	Disinfectant, pine oil, soluble: Zobel Co., Ernst	Disinfectant, Smith's germicide: Smith Insecticide Co., John B.
556	Disinfectant, "Pine-o-l, soluble": International Chemical Co.	Disinfectant, "Sol-o-kre germicide": Rochester Germicide Co.
235	Disinfectant, special pine oil: Post Chemical Manufacturing Co. (Hal H. Post, trading as)	Disinfectant, "Solpo": American Disinfecting Co.
827	Disinfectant, "Pi-No-X": Bullen, J. Warren (trading as Bullen Chemical Co.)	Disinfectant, soluble pine: Chemical Supply Co. (Warren Refining & Chemical Co., trading as)
302	Disinfectant, "Pinezo": Mackie Pine Oil Specialty Co.	810, 811
601	Disinfectant, "Pinoect": West Disinfecting Co.	Disinfectant, "Soluble Pine Compound": Chemical Supply Co. (Warren Refining & Chemical Co., trading as)
643	Disinfectant, "Pino-Lyptol Creozone": Pino-Lyptol Chemical Co.	Disinfectant, "Soluble Pine Compound": Chemical Supply Co. (Weige Co., trading as)
998	Disinfectant, "Pioneer Dip": Letson Co., A. G. (Allan G. Letson and Mary A. Letson, trading as)	882
839	Disinfectant, pino-zen: Zenner, Albert H. (trading as Zenner Products Co., and Zenner Disinfectant Co.)	Disinfectant, "Soluble Pine Compound": Chemical Supply Co. (724, 767, 771, 795, 809, 831
330	Disinfectant, puro-pine: United Chemical Companies (John M. Baptiste and Mary S. Baptiste, trading as)	Disinfectant, soluble pine oil: Chemical Supply Co.
594	Disinfectant, "Purox": International Chemical Co.	Disinfectant, soluble pine oil: Day Co., Britton T. & S. P.
609	Disinfectant, "Pyneola": Lebanon Chemical Co.	837, 887
335	Disinfectant, "Pyxol": Barret Manufacturing Co.	Disinfectant, soluble pine oil: Post Chemical Manufacturing Co.
347	Disinfectant, red soluble pine: Hunt Manufacturing Co.	885, 892, 894
	Disinfectant, "Renouard erisin": Renouard, Charles A. (trading as A. Renouard & Son)	Disinfectant, soluble pine oil: Post Chemical Manufacturing Co. (Hal H. Post, trading as)
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		Disinfectant, soluble pine oil: Warren Refining & Chemical Co. (trading as Chemical Supply Co. and Prescott Chemical Co.)
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		Disinfectant, "Solu-Finol": Missouri-Kansas Chemical Corporation
		888
		Disinfectant, "Solution Cresol Compound": Kremls, Ottmar H.
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		Disinfectant, "Carboline": Red "O" Oil Manufacturing Co.
		339
		Disinfectant, "Tarola": Barrett Manufacturing Co.
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		Disinfectant, "Triesol": Western Chemical Co.
		296
		Disinfectant, "Vap-O-Cake": Kemiko Co.
		871
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		Disinfectant, "Wander's Chlorinated Lime": Wander & Sons Chemical Co., S.
		825, 834
		Disinfectant, Worrell's eucolium: Worrell Manufacturing Co.
		333
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Disinfectant, zenoleum No. 1: Zenner, Albert H. (trading as Zenner Products Co.)	989	Flea and moth killer, Stumpf's magic hoodoo: John Stumpf's Sons (Alvin T. Stumpf and Louise Stumpf, trading as)	538
Disinfectant, "Ziratol": Bristol-Myers Co.	256	Flea rid: Ellis-Jones Drug Co. (trading as American Sanitary Corporation)	521
Disinfectant, "Zoneite": Foose Chemical Co. (W. H. Foose and A. J. Foose, trading as)	522	Fleas, Sergeant's infallible remedy for: Polk-Miller Drug Co.	278
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Eggs, nest, friend of the hen: Reynolds Manufacturing Co., H. B. (George D. Lewis, trading as)	597	Fly and germ killer, standard: Smith & Co., D. B. (D. B. Smith, trading as)	152
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Eggs, nest, Reynolds' lice killing: Reynolds Manufacturing Co. (Hermie B. Lewis, trading as)	752	Fly-kill: Prescott, Robert W.	291
Eggs, nest, lice killer: Reynolds Manufacturing Co., H. B. (George D. Lewis, trading as)	645	Fly killer, columbia: Sturtevant Co., F. C.	898
Electro arsenate of lead, Vreeland's: Vreeland Chemical Co.	153	Fly killer, wonder: Watson Co., The	26
Electro boro-lead mixtire, Vreeland's: Vreeland Chemical Co.	153	Fly killer plant, magic: Heininger Co., The Henry (Henry Heininger and Charles Baker, trading as)	98
Electro boro-pulp: Vreeland Chemical Co.	801	Fly knocker, Conkey's: Conkey Co., G. E.	19
Emmett's specific remedy, C. F.: Lyons & Co. (Ltd.), I. L.	313	Fly liquid, white, Drummond's: Kansas City Tobacco Products Co.	736
Entomocide: Wilson, John (trading as Sacramento Chemical Co.)	931	Fly maggot compound (disinfectant and germicide) Kirke: Kirke Chemical Co.	443
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Eucomium, Worrells: Worrell Manufacturing Co.	50	Fly-no: Sacramento Chemical Co. (John Wilson, trading as)	199
Evans' myr-ic spray: Evans Chemical Co. and Myr-ic Chemical Co. (Thomas W. Evans, trading as)	937	Fly oil: Post Chcmical Manufacturing Co.	776
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Exterminator, insect, lysatol: Lehn & Fink (Inc.)	983	Fly oil, Webster's: Noyes Bros. and Cutler & Co.)	170
Exterminator, roach, Scholtz's: Scholtz Mutual Drug Co.	955	Fly paper, magnet brand poison: American Fly Paper Co. (L. W. Young, trading as)	99
F	228	Fly paper, poison, Briggs's: Briggs, F. W. and W. A. Briggs (trading as F. W. Briggs & Co.)	352
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Fir tree oil insecticide, soluble: Blanchard Co., The James A.	49	Fly paper, shore-kill poison: Briggs & Co., F. W. (Frank W. Briggs and Wm. A. Briggs, trading as)	79
Fir tree oil soap: James Good (Inc.)	344	Fly powder, Shores: Shores-Mueller Co.	699
Fir tree oil soap, Stott's: Pierson, J. C.	200	Fly relief: United Chemical Companies (John M. Baptiste and Mary S. Baptiste, trading as)	836
Fish oil: Cook Oil Co., N. B.	81	Fly relief, O. K.: O. K. Stock Food Co.	210
Fish oil kerosene emulsion, sterlingworth: Sterling Chemical Co. (George E. Littlefield, trading as)	100	Fly remover, Vawter's: J. H. Vawter	569, 570
Fish oil soap: Good, James (Inc.) Roberta K. Good, trading as)	140	Fly shake, red diamond: Meyer Bros. Drug Co.	164
Fish oil soap no. 6, Good's caustic potash tobacco: Good, Roberta K.	544	Fly shoo: Briggs & Co., F. W. (Frank W. Briggs and William A. Briggs, trading as)	668
Fish oil soap: Leggett & Bro. (Edward H. Leggett and Clinton H. Leggett, trading as)	614	Fly shy, standard: Standard Chemical Manufacturing Co.	477
Fish oil soap: McKesson & Robbins	280	Fly spray, whiz: Hollingshead Co., The R. M.	185
Fish oil soap, Michell's pure: Michell Co., Henry F.	614	Fly way, international: International Stock Food Co.	174, 928
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Pine oil disinfectant, Mackay's: Mackay's Rabbit Farm (Arnold H. Mackay, trading as)	Red diamond fly snake: Meyer Bros. Drug Co.
Pine oil disinfectant, soluble: Post Chemical Manufacturing Co. (Hal. H. Post, trading as)	Red diamond improved louse killer, Meyer: Meyer Bros. Drug Co.
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Pine oil disinfectant, soluble: Warren Refining and Chemical Co. (trading as Chemical Supply Co. and Prescott Chemical Co.)	Rexo dip: Tropical Oil Co., The
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Pine-oil disinfectant, soluble: International Chemical Co.	Ricksecker's dog soap: Ricksecker Co., The Theo.
Pineola, soluble, extra: Georgia Pine Turpentine Co.	Rid-all: Greenfield Chemical Co. (Morris H. Greenfield, trading as)
Pineoline, Eckert's: Eckert, George C.	Ridants: Cleveland Galvanizing Works Co., The
Pine, red soluble: Hunt Manufacturing Co.	Rid-em liquid: Pfeiffer Manufacturing Co.
Pine tar, pure, dixie brand: Northwestern Pine Tar Co.-----921, 991	Roach and rat powder: Langley & Michaels Co.
Pinezo: Mackie Pine Oil Specialty Co.-----827	Roach and ant powder, salux: Washington Soap Products Co.
Pi-ne-x: Bullen, J. Warren (trading as Bullen Chemical Co.)-----285	Roach exterminator, the great western: Enge, Charles E.
Pinofect disinfectant: West Disinfecting Co.	Roach exterminator No. 14, Hirsch's: Nierenberg, John (trading as Prof. Hirsch Chemical Co. and Prof. Hirsch Exterminator Co.)
Pino-lyptol creozone: Pino-Lyptol Chemical Co.	Roach exterminator, rat bis-kit paste: Rat Biscuit Co., The
Pinol-solu: Missouri-Kansas Chemical Corporation	Roach exterminator, Scholtz's: Scholtz Mutual Drug Co.
Pioneer quick fly exterminator: Pioneer Quick Fly Exterminator Co. (J. L. Hazen and William Feldman, trading as)	Roach food, Peterman's: Calvert Drug Co.
Pino-zem: Zenner, Albert H. (trading as Zenner Products Co. and Zenner Disinfectant Co.)	Roach food, Peterman's: Peterman (Inc.), William
Plant oil, Wilson's: Wilson Plant Oil and Fertilizer Co.	Roaches, Hooper's fatal food for: Jadwin & Sons, O. H.
Plant tonic and insect destroyer, Dr. Null's: Coleman, George B.	Roach killer, W. D. Co.'s kill roach: West Disinfecting Co.
Plaster Paris green mixture: Southern Gypsum Co.-----74	Roach and lice powder, game cock: Smith Drug Co., C. D.
Pom's golden wonder: Pommier Co., I. A.-----972, 982	Roach pepper: Greenfield Chemical Co. (Morris H. Greenfield, trading as)
Potato bug killer compound, Stonecypher's irish: Stonecypher Drug and Chemical Co. (James Henry Stonecypher, trading as)	Roach pepper, Ashe's: Tampa Drug Co.
Poultry, powder for, watch it get em: Glenwood Manufacturing Co.-----704, 705	Roach powder, A. D. S.: American Drugists Syndicate-----817, 900
Poultry tonic, Edgerton's: Edgerton Salt Brick Co.	Roach pepper, Cooper's: Cooper & Nephews, William (Charles E. Timson, trading as)
Poultry tonic, Edgerton's: Edgerton Salt Brick Co. (consigner)	Roach powder, deadine: Deadine Manufacturing Co., The (Louis Dreyfus, trading as)
Pratt's liquid lie killer: Pratt Food Co.	Roach powder, deadine: Deadine Manufacturing Co., The
Prophylactic fluid, Darby's: Simmons Medicine Co., C. F. (trading as J. H. Zellin & Co.)	Roach powder, dethnel: U. S. Sanitary Specialties Corporation
Protexol, standard: Standard Chemical Manufacturing Co.-----876, 926	Roach powder, Dike's: Stearns & Co., Frederick
Purox: International Chemical Co.-----330	Roach powder, fatal, Dr. Trager's: Trager Manufacturing Co.
Pyneola: Lebanon Chemical Co.-----594	Roach powder, formacone: Formacone Co.
Pyret powder, Good's: Good, James, Inc.-----946	Roach powder, Germo: Germo Manufacturing Co.
Pyxol: Barrett Manufacturing Co.-----180	Roach powder, international: International Chemical Co.
R	
Rat bis-kit paste: Rat Biscuit Co.-----17	Roach powder, Nyal's: Stearns & Co., Frederick
Rat killer, Collier's lightning: Allen-Pfeiffer Chemical Co.-----388	Roach powder, Odell's: Pittsburgh Insect Exterminating Co. (L. Albert Odell, trading as)
Rat-mum: Vermin Exterminator Co.-----220	Roach powder, formacone: Formacone Co.
Rat paste exterminator: Costar Manufacturing Co.-----501	Roach powder, Germo: Germo Manufacturing Co.
Rat poison, Dike's (Kills *** cockroaches, ants, water bugs, vermin, etc.): Stearns & Co., Frederick	Roach powder, international: International Chemical Co.
Rat and roach paste, royal: Royal Exterminating Products, Inc.-----147	Roach powder, Nyal's: Stearns & Co., Frederick
Rat and roach powder, Keifer's: Keifer Co., F. B., and The Keifer Drug Co. (Fred B. Keifer, trading as)-----675	Roach powder, Odell's: Pittsburgh Insect Exterminating Co. (L. Albert Odell, trading as)
Rat snap: Merchants Drug Co.-----428	Roach and rat paste, royal: Royal Exterminating Products, Inc.
Readeana: Reade, William J. (trading as Reade Manufacturing Co.)-----216, 217	Roach and rat paste, Stearns electric: Stearns Electric Paste Co.
	Roach and rat powder: Keifer Co., F. B., and The Keifer Drug Co. (Fred B. Keifer, trading as)
	Roaches and water bugs, Sanford's last meal for: Holton & Adams
	Roach sault: Barrett Chemical Co.-----35, 39, 281
	Roachelene, Force's: Wilcox, L. E.
	Roberts disinfectant, Dr. David: Roberts Veterinary Co., Dr. David

	No.	No.	
Rock salt for stock, compressed sulphurized: Inland Crystal Salt Co.	722	Soap, caustic potash fish oil No. 3: Schieffelin & Co.	461
Ro-san chemical: Stritsky, William E. (trading as Rose Sanitary Manufacturing Co.)	950	Soap, dog: Ricksecker's: Ricksecker Co., The Theo.	131
Rudisch's bug destroyer: White Tar Co.	149	Soap, fir tree oil: Good, James (Inc.)	949
Rusoline: Rust, William H.	37	Soap, fish oil: McKesson & Robbins	544
Rust's lice liquid: Wood & Sons, T. W.	822	Soap, fish oil: Standard Chemical Co.	614
Rust's liquid mite killer: Rust & Sons, William	413	Soap, Good's sulpho-tobacco: Good, James (Inc.)	947
S		Soap, Graham's animal disinfectant: Cobb, Emmons B., and Henry J. Heister (trading as Graham Bros. & Co.)	309
Salairacine: MacGregor Salairacine Co. (J. D. MacGregor and Rene W. MacGregor, trading as)	927	Soap, insecticide, gets-there: Gets-There Soap Co. (Bessie G. Pierce Hamlin, trading as)	971
Salt block, medicated, Jim Bourland's: Bourland, James C.	630	Soap, liquid ethereal: Jensen-Salsbery Laboratories	981
Sanax disinfecting fluid: Sharp & Dohme	102	Soap, synol: Johnson & Johnson	157
Sanford's last meal for roaches and water bugs: Holton & Adams	151	Soap, tree: Stewart & Holmes Drug Co.	310
Sanigenic cedar oil compound polish: Attman-Treichler Co. (consignee-claimant)	181	Soap, tree, optimus: Stewart & Holmes Drug Co.	613
Sanitary disinfectant, vermathol: Pratt Food Co.	125	Solu-kre germicide: Rochester Germicide Co.	188
Sanitary fluid, magic-oicum: Magic Food Co.	143	Solu-pinol: Missouri-Kansas Chemical Corporation	888
Sanitary fluid, midwood: Midwood Chemical Co.	491	Sulpo: American Disinfecting Co. (Inc.)	433
Sanitary fluid, Milwaukee: Milwaukee Lubricants Co.	647	Solution cresol comp. U. S. P.: Sharp & Dohme	144
Sanitary lotion, Woolford's: Detechon Medicine Co., Dr. E.	58	Sporicide: Sporicide Chemical Co.	533, 534
Sanitary nesting hair: Aschenbach & Miller	124	Spra-oil, Hood River: Butcher Co., J. C. (J. C. Butcher, trading as)	610
Sanitas: Sanitas Co., The	440	Spra-sulphur, diamond: Portland Seed Co.	304
Sanitoria: Snowden Chemical Co. (James R. Snowden, trading as)	55	Spratt's dip: Spratt's Patent (Limited)	499
Sanitoria: Snowden Chemical Co.	617	Spratt's follicular mange remedy: Spratt's Patent (America) Limited	419
Sanoe: Formaeone Co.	743, 744	Spratt's red mite killer: Spratt's Patent (America) Limited	412
Sanodor carbolinum wood preserving oil: Carbon Chemical Co.	58	Spray, all in one: Southland Combination Spray Manufacturing Co. (Allison H. Speir, trading as)	592
san-o-la: Rochester Germicide Co.	208	Spray, Armstrong's livestock: Armstrong Paint & Varnish Works	243
Saola: Tilden Co., The	271	Spray, crown animal: Crown Chemical Co.	47
Sapocarinol: Ferromannin Chemical Co.	177	Spray, Niagara: Hood River Spray Manufacturing Co.	34
Sapozol: Auto-Laks Manufacturing Co.	474, 763	Spray, savall: Hoffman, Orlando J.	600
Savall spray: Hoffman, Orlando J.	600	Spray, summer tree, Cooper's: Timson, Charles E. (trading as William Cooper & Nephews)	237, 241
Sawdust, sanitas, disinfecting: Sanitas Disinfectants Co.	274	Spray, winter tree, Cooper's: Timson, Charles E. (trading as William Cooper & Nephews)	237
Scabolin, Ward & Co., Montgomery	350, 856	Spraysect, concentrated: West Disinfecting Co.	518
Scale treatment, fertilizing: Kleckner, Albert D., Maybelle B. Kleckner, and Emma Kleckner (trading as Fertilizing Scale Co.)	299	State's lice killer food: Staite & Co. (consignor)	577
Scalex: Good, James (Inc.)	940	State's lice killer food: Staite & Co. (Walter Birch and John H. Bradshaw, trading as)	553
Scaline: Aphine Manufacturing Co.	259	Standard fly and germ killer: Smith & Co., D. B. (D. B. Smith, trading as)	152
Scaly leg ointment, international: International Food Co.	755	Standard fly shy: Standard StockFood Co.	185
Sealy leg remedy, Talbott's: Talbott Chemical Co., W. R.	81	Sterlingworth arsenate of lead: Sterling Chemical Co. (George E. Littlefield, trading as)	145
Schnarr's insecticide: Schnarr & Co., J. J. Schnarr, trading as)	423	Sterlingworth dry bordeaux mixture fungicide: Sterling Chemical Co. (George E. Littlefield, trading as)	145
Schmart's insecticide, Van Antwerp's: Van Antwerp's Drug Corporation	338	Sterlingworth fish oil kerosene emulsion: Sterling Chemical Co. (George E. Littlefield, trading as)	200
Screw worm killer, peerless, Central Drug & Book Store (L. C. Williams, trading as)	471	Stock disinfectant and dip: United States Refining Co. (Simon Adelson, trading as)	778
Seetense: Ellis, Charles H.	215	Stock powder, Webb's Texas: Morris & Dickson Co. (Ltd.)	847
Security carbonized disinfectant: McCann, William	38	Stott's fir tree oil soap: Pierson, J. C.	47
Septico: Park, Davis & Co.	530, 796	Stumpf's magic hoodoo paper, John: Stumpf Sons, John (Alvin T. Stumpf, Louis J. Stumpf, Archie C. Stumpf, and L. R. Stumpf, trading as)	158
Sheep bath, Wakelee's: Wakelee & Co.	290	Sturtevant lice paint: Sturtevant Co., F. C. Suleo-V. B.: Cook & Swan Co.	417
Sheep dip, rajah: Owl Drug Co., The	976	747, 764, 787, 808, 860	746,
Sheep wash, Hammond's: Hammond's Paint and Slush Shot Works	979	Sulfoicide: Pratt Co., The B. G.	171, 830, 865
Shoemaker's disinfectant: Shoemaker & Co., Robert (Robert M. Shoemaker, Thomas E. Shoemaker, and Benjamin H. Shoemaker, trading as)	450	Sulfo-nicotinic spray: Standard Chemical Co.	507, 508
Shoo fly: Briggs & Co., F. W. (Frank W. Briggs and William A. Briggs, trading as)	668	Sulpho-arsenate powder, green cross: Kill-Tone Co.	793
Shoo-fly, the animal's friend: Shoo-fly Manufacturing Co. (Thomas M. Hall, trading as)	6	Sulpho-naphthol, Cabot's: Sulpho-Naphthol Co., The	107
Sic-em-powder: Dent Medicine Co.	426, 542	Sulpho-tobacco soap, Good's: Good, James (Inc.)	947
Simplex: Smith & Co., H. J. (Harry J. Smith, trading as)	190, 219, 245, 289, 324		
Seabcura: Nicotine Manufacturing Co.	903		
Slug destroyer, Bowe's blue label: Bowe, Fred M.	207		
Smoke, canned, louse killer, giant smoke em:	964		
Spahr Breeding Estate H. M.			
Soap, caustic potash fish oil No. 1: Schieffelin & Co.	460		

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Sulphur compound, Kirke soluble: Kirke Chemical Co. ....	446, 514	Vayicide: Vayicide Chemical Corporation ....	961
Sulphur and tobacco insecticide and fertilizer for plants: Sturtevant, George F. ....	557	Veldop, cotton boll-weevil exterminator: Veldop Co., The ....	191, 193
Sunflower bug skidoo: Omaha Horse, Cattle and Hog Remedy Co. ....	602	Vap-o-cake: Kemiko Co. ....	871
Sure kill poison fly paper: Briggs & Co., F. W. (Frank W. Briggs and William A. Briggs, trading as) ....	79	Vapogram, kemiko: Kemiko Co. ....	874
Sure-noxem: Devoe & Raynolds Co. ....	993	Vermifuge for horses and cattle: Meyer Bros. Drug Co. ....	802
Synol soap: Johnson & Johnson. ....	157	Vermifolin: Vibert, Henri (trading as Q-W Laboratories. ....	973
W			
Tak-a-nap: Tak-a-nap Co. (John A. Hovey and Lillian F. L. Hovey, trading as) ....	319	Warnock's tree paint: International Pear Blight Cure Manufacturing Co. ....	366, 367
Talbott's scaly leg remedy: Talbott Chemical Co., The W. R. ....	81	Warnock's tree paint: International Pear Blight Cure Manufacturing Co. (Robert Warnock, trading as) ....	517, 798, 877
Tarbo dip, Richards': Minneapolis Drug Co. Tarbofine: Red "C" Oil Manufacturing Co. ....	160	Water bugs and cockroaches, the celebrated pink powder for exterminating: Hammond & Son, William P. (W. P. Hammond and Harry J. Hammond, trading as) ....	582
Tarola: Barrett Manufacturing Co. ....	339	Water bug, cockroach and rat paste, excelsior: Ditman, H. W. ....	50
Tarola X: Barrett Co., The. ....	27	Water bugs and roaches, Sanford's last meal for: Holton & Adams. ....	151
Tatobug: Lebanon Chemical Co. ....	371	Webster's dip: Noyes Bros. & Cutler. ....	579
Temple of Allah incense: James Co., F. K. Thompson's rose nicotine: Thompson & Co., F. A. ....	565, 593	Webster's oil dip: Noyes Bros. & Cutler. ....	170
Thy-cresol, the cold water dip: Gilpin Co., The Henry B. ....	459	Webster's lice powder: Noyes Bros. & Cutler. ....	710
Tobacco dust: Elliott & Son, William (consignor) ....	9, 91	Whale oil soap: Blumauer-Frank Drug Co. ....	61
Tobacco dust: Globe Tobacco Co. ....	654	Whale oil soap and arsenate of lead combination cartridge: Houghton, Fred D. ....	924
Tobacco dust, tip-top brand: Interstate Chemical Co. ....	286	Whale oil soap cartridge: Houghton, Fred D. ....	924
Tobacco extract, Lilly's: Lilly Co., The Chas. H. ....	283	Whale oil soap, lion brand: Blanchard Co., The James A. ....	227
Tobacco, Garrett's refined: American Snuff Co. ....	146	Whale oil soap, Mount Hood: Mount Hood Soap Co. ....	121
Tobacco nicotine compound, Kirke's; Kirke Chemical Co. ....	468	White tar moth balls: White Tar Co., The. ....	71
Tobacco nicotine compound, Kirke's; hot-house special: Kirke Chemical Co. ....	442	Whiz fly spray: Hollingshead Co., The R. M. ....	174
Tobacco-sulpho soap, Good's; Good, James (Inc.) ....	445	Williams Fly and insect destroyer, Dr.: Williams Fly and Insect Destroyer Co. ....	337
Tobacco and sulphur insecticide and fertilizer for plants: Sturtevant, George P. ....	947	Wilson's plant oil: Wilson Plant Oil & Fertilizer Co. ....	154
To-bak-ine liquid: Thompson & Co., F. A. ....	557	Wonder fly killer: Watson Co., The. ....	26
To-bak-ine sheep dip: Thompson & Co., F. A. ....	9, 92	Wood preserving oil, sanodor carbolineum: Carbon Chemical Co. ....	503
Tonic, Edgerton's poultry: Edgerton Salt Brick Co. (consignor) ....	93	Woolford's sanitary lotion: Detchon Medicine Co., Dr. E. ....	124
Tonicide, red label: Herrmann, Morris (trading as Morris Herrmann & Co.) ....	552	Worm and bot destroyer, gets-em: Northwest Manufacturing & Milling Co. ....	456
Tough-on-flies: Crescent Chemical Co., The. ....	266	Worm capsules, heureka: Breeders Remedy Co. (Max Lorenz, trading as) ....	821
Tree cord, sticky, magic: Alto Manufacturing Co. ....	85	Worm eradicator, Reade's electric: Reade Manufacturing Co. (Wm. J. Reade, trading as) ....	414
Tree fluid, Derror's improved: Derror Improved Tree Fluid Co. (Jennie Derror and Mary Hardgrove, trading as) ....	424	Worm killer, cabbage, Jones: Jones Seed Co., O. S. ....	564
Tree fluid, Derror's latest improved: Derror Latest Improved Tree Fluid Co. (Steven Kober, trading as) ....	455	Worm powder, gold coin: Gold Coin Chemical Works (Christian A. Lund, trading as) ....	807
Tree fluid, Derror's latest improved: Derror's Tree Fluid Co. (consignor) ....	829	Wound paint, tree, victory: Rich-Lac Co. (Nehemiah L. Rich, trading as) ....	967
Tree paint, Otwell's: Minnesota Linseed Oil Paint Co. ....	578	XYZ	
Tree paint, Warnock's International Pear Blight Cure Manufacturing Co. ....	374	X-terminator: Hunter, C. T. ....	529
Tree paint, Warnock's: International Pear Blight Cure Manufacturing Co. (Robert Warnock, trading as) ....	366, 367	Zenkes compound plant insecticide: Excell Laboratories. ....	848
Tree powder: Thompson, William C. (trading as W. C. Thompson & Co.) ....	919	Zenkes liquid fungicide: Excell Co. Laboratories (Harry S. Cook and Theodore T. Woolens, trading as) ....	846
Tree-ring: Buffalo Standard Ink Corporation. ....	386	Zenoleum: Zenner Disinfectant Co. ....	1, 21
Tree-soap, optimus: Stewart & Holmes Drug Co. ....	613	Zenoleum disinfectant: Zenner, Albert H. (trading as Zenner Products Co. and Zenner Disinfectant Co.) ....	999
Treevax: Treevax Chemical Co., The. ....	348	Zenoleum disinfectant: Zenner, Albert H. (trading as Zenner Products Co.) ....	989
Tree wound paint, victory: Rich-Lac Co. (Nehemiah L. Rich, trading as) ....	967	Zenoleum No. 1: Zenner, Albert H. (trading as Zenner Products Co.) ....	989
Triisol: Western Chemical Co. ....	296	Zenoleum lice powder: Zenner, Albert H. (trading as Zenner Products Co. and Zenner Disinfectant Co.) ....	986
20th century insecticide: A. M. C. Manufacturing Co. (A. E. Brown and A. V. McConaghay, trading as) ....	526	Zinc arsenite, ortho 40: California Spray Chemical Co., The. ....	106, 162
2 in 1: Knock-em-dead Co. ....	482	Ziratol: Bristol-Myers Co. ....	244, 256
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U-ko-pine, concentrated: Meek, Court & Co. ....	741	Zonite: Foose Chemical Co. (A. P. Foose, W. H. Foose, and A. J. Foose, trading as) ....	522
Unplezent kumpfse: Herr & Roach (Jere-miah Thomas Roach and Jason A. Herr, trading as) ....	397		

## NAME OF DEFENDANT OR CLAIMANT

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A	No.	No.
Abbott & Dennison (William P. Abbott and John C. Dennison, trading as): Louse driver, A. and D.		
Acme White Lead and Color Works: Arsenate of calcium.		
Adelson, Simon (trading as The United States Refining Co.):		
Fly chaser, skidoo.....	777	
Insect exterminator.....	179	
Stock dip and disinfectant.....	778	
Adler Color & Chemical Works (Leon M. Adler, trading as):		
Bordeaux lead arsenate mixture paste, ideal.....	135	
Bordeaux lead arsenate mixture powder, ideal.....	134	
Bordeaux Paris green mixture, ideal.....	133	
Albany Chemical Co.:		
Formaldehyde.....	687	
Kempure.....	696	
Kempure.....	697	
Allan-Pfeiffer Chemical Co.:		
Louse killer, Allan's.....	803	
Louse killer, M & D's.....	803	
Rat killer, Collier's lightning.....	388	
Alto Manufacturing Co.: Magic sticky tree cord.....	424	
A. M. C. Manufacturing Co. (A. E. Brown and A. V. McConaghy, trading as): 20th Century insecticide.....	526	
American Disinfecting Co. (Inc.):		
Sulpo.....	433	
American Druggists' Syndicate:		
Bug killer, A. D. S.....	480	
Bug killer, A. D. S.....	481	
Insect powder, A. D. S.....	224	
Louse killer, safe-t-kros.....	682	
Roach powder, A. D. S.....	817	
Roach powder, A. D. S.....	900	
American Fly Paper Co. (L. V. Young trading as): Fly paper, magnet brand posion.....	90	
American Insecticide Co. (Chauncey A. Jones, trading as): Bug killer, diamond.....	716	
American Live Stock Powder Co.:		
Dip, powdered, American.....	845	
Disinfectant dip, American.....	844	
American Manufacturing Co. (trading as The Conrad Wood Preserving Co.): Creosote.....	449	
American Remedy Co. (Chauncey A. Jones and P. E. Prouse, trading as): Lice killer, American.....	715	
American Sanitary Corporation (Ellis-Jones Drug Co., trading as):		
Bedbug rid.....	520	
Flea rid.....	521	
American Snuff Co.: Garrett's refined tobacco		
American Supply Co. (A. Otis Arnold, trading as): Licecil.....	468	
Anderson & Co. (Percy E. Anderson and Charles W. Anderson, trading as): Insect powder, P. E. A. Co. brand.....	54	
Andur, William G. and Maurice Olinger (trading as Wano Chemical Co.): Nok-em-al.....	539	
Antozone Chemical Co.:		
Carbozone disinfectant.....	312	
Perfumed antozone.....	312	
Aphine Manufacturing Co.:		
Aphine.....	116	
Aphine.....	258	
Fungine.....	117	
Fungine.....	118	
Fungine.....	415	
Scaline.....	259	
Archibald & Lewis Co.:		
Chlorinated lime or bleaching powder, black diamond.....	554	
Insect powder, half stems and half flowers.....	516	
Armstrong Paint & Varnish Works: Spray, Armstrong livestock.....	243	
Arndt, Lillian (trading as Arnolene Disinfecting Co.): Crystal perfume disinfectant.....	932	
Arnold, A. Otis (trading as American Supply Co.): Licecil.....	950	
Arnelene Disinfecting Co. (Lillian Arndt, trading as): Crystal perfume disinfectant.....	932	
Artman-Treichler Co. (consignee-claimant): Cedar oil compound polish, Sani-Genic.....	181	
Aschenbach & Miller: Sanitary nesting hair.....	440	
Associated Manufacturers Co.:		
Chloride solution, amco odorless.....	952	
Fomachlor.....	953	
Auto-Lake Manufacturing Co.:		
Disinfectant sapozol.....	763	
Sapozol.....	473	
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Babbitt, B. T.:		
Chlorinated lime, acme.....	943	
Chlorinated lime, acme and Hudson.....	698	
Baird & McGuire: Cresol compound.....	399	
Baker, Charles L. and Henry Heininger (trading as The Henry Heininger Co.):		
Fly killer plant, magic.....	98	
Baker Chemical Co., J. T.: Formaldehyde.....	62	
Baker, J. Clifford (Arthur Chichester McCartney, Frank W. Knight, Raymond A. McMillan and Leon M. Somes, trading as O. K. Sterilizer Co.): O. K. Sterilizer.....	452	
Barragar, E. L.: Liquid koal.....	311	
Barrett Co., The: Tarola X.....	371	
Barrett Chemical Co.:		
Roach sault.....	35	
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Roach sault.....	281	
Barrett Manufacturing Co.:		
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Fyxol.....	180	
Tarola.....	27	
Barry, E. J.:		
Arsenate of lead.....	408	
Arsenate of lead.....	409	
Batavia Chemical Co. (Pieter Keyzer trading as): Keyzer's arseno-Bordeau.....	501	
Bect, Thomas, R. A. Newlyn and Lilly Papadopulu (trading as Newlyn Chemical Co.): Kil-Em.....	198	
Belleview Manufacturing Co.: Florozone.....	334	
Bentley, George D.: Bentley's louse powder.....	586	
Bester, Henry A., Jr. and J. Alvey Long (trading as Hagerstown Spray Material Co.): Lime-sulphur solution, concentrated.....	541	
Betts Co., C. G.: Lime-sulphur spray, inland.....	56	
Bigler Co., G. R.: Bigler lice killer.....	670	
Bishopric Products Co.: Fly and germ killer.....	327	
Blackstone Manufacturing Co.: Expiro brand insect powder.....	750	
Blan, Jules (trading as Metropolitan Chemical Specialty Co.): Krysol Comp.....	12	
Blanchard Co., The James A.:		
Arsenate of lead.....	33	
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Arsenate of lead, lion brand.....	681	
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Bordeaux mixture, lion brand.....	14	
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	No.	No.	
Blanchard Co., The James A.—Continued.		Burch & Co., F. S.:	
Bordeaux mixture, lion brand	639	Apterite, Cooper's.....	239
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Bordeaux mixture, lion brand	691	Lice killer, A. & M.....	236
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Bordeaux and Paris green, vitriol brand, compound of.....	689	Salze's lice killer.....	361
Fir tree oil insecticide, soluble	228	Burnett's (Inc.):	
Kerosene emulsion, concentrated, lion brand	226	Bird wash, Burnett's antiseptic.....	863
Kerosene emulsion, concentrated, lion brand	611	Bird wash, Burnett's antiseptic.....	977
Paris green	33	Burton & Co., J. T.:	
Paris green	225	Walker's blockettes B.....	331
Paris green, lion brand	363	Walker's blockettes C.....	332
Paris green, lion brand	685	Busch, Miers and Clayton F. Shoemaker (trading as Shoemaker & Busch): London purple.....	300
Paris green, lion brand pure	759	Butcher Co., J. C. (J. C. Butcher, trading as): Hood River spra-oil.....	610
Paris green, lion brand strictly pure	123	Butcher, Jacob C. (trading as Oregon Arsenical Spray Co.): Lime-sulphur solution.....	223
Paris green, lion brand pure	638		
Paris green, lion brand pure	676		
Paris green, vitriol brand pure	684		
Whale-oil soap, lion brand	227		
Blumauer-Frank Drug Co.:		C	
Cresogenet	120	Cabot, Samuel (Inc.): Cabot's gypsy moth creosote.....	868
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Bon Arbor Chemical Co.: Ant destroyer	341	Zinc arsenite, ortho 40 ortho.....	106
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Insect powder, red wing.....	298	Cal-Sino Co.:	
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Bourbon Remedy Co. (Paul E. Shipp and J. F. Shipp, trading as):		Capitol Food Co., The: Creolium.....	80
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Heininger, Henry, and Charles L. Baker (trading as The Henry Heininger Co.): Fly-killer plant, magic.....	59	Hovey, John A., & Lillian F. L. Hovey (trading as Tak-A-Nap Co.): Tak-a-nap.....	319
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Johnson & Johnson: Synol soap.....	157	Lamprey Products Co. (trading as Prussian Remedy Co.):	
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K. D. C. Co. (Isaac J. Kemper, trading as):		Pyneola.....	594
Real cedar chips.....	453	Tatobug.....	565
Keifer, F. B. (trading as The F. B. Keifer Co and The Keifer Drug Co.):		Tatobug.....	593
Ant eradicator.....	428	Lecroy & Son, John (Samuel H. Feldman, Robin Golob and Ellis Goldman, trading as): Hits-it.....	784
Disinfectant and germicide.....	428	Lee Co., George H.:	
Head lice ointment.....	428	Insect destroyer, Lee's.....	15
Rat and roach powder.....	428	Lice killer, Lee's.....	110
Kellogg Ant Paste Co. (Sylvanus H. Kel- logg (trading as): Kellogg's ant paste.....	910	Lice killer, Lee's.....	968
Kellogg, Sylvanus H.: Kellogg's ant paste.....	57	Lice killer, Lee's.....	996
Kelly-Steinmetz Liquor Co.:		Le Gear Medicine Co., Dr. L. D.:	
Disinfectant, Kelly's.....	779	Dip and disinfectant, Dr. Le Gear's.....	10
Dusting powder, Kelly's.....	708	Dip and disinfectant, Dr. Le Gear's.....	506
Lice killer, Kelly's.....	721	Leggett & Bro.:	
Kemiko Co.:		Chloride of lime or bleaching powder.....	479
Disinfectant, Kemiko.....	872	Chloride of lime, red riding hood.....	383
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Vap-o-cake.....	871	Fish-oil soap.....	140
Vapogram, Kemiko.....	874	Fly oil, anchor brand.....	580
Kentucky Tobacco Products Co.:		Lehn & Fink:	
Nico-fume liquid.....	28	Liquid K K K.....	612
Nico-fume liquid.....	83	Lysetol.....	987
Kerr, Cliford & Co. (Peter Kerr, Thomas Kerr, and Andrew Kerr, trading as): Ar- senate of lead, Hemingway's pure.....		Lennig & Co.: Neverscale.....	284
Ketman, I. J. and Elmer K. Cole (trading as Scarless Remedy Co.):		Lesure, Dr. J. G. (George H. Lesure, trading as): Karbo cream disinfectant.....	402
Dip, besto stock.....	165	Letson Co., A. G. (Allan G. Letson and Mary A. Letson, trading as): Pioneer dip.....	643
Lice killer, scarless brand liquid.....	527	Lewis, George D. (trading as H. B. Reynolds Manufacturing Co.):	
Kemper, Isaac J. (trading as K. D. C. Co.):		Nest eggs, friend of the hen.....	597
Real cedar chips.....	453	Lice killer nest eggs.....	645
Keyzer, Pieter (trading as Batavia Chemical Co.): Arseno-Bordeaux.....			
Kibler-Lieber Co.:			
Arsenate of lead.....	183		
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Paris green.....	211		
Paris green.....	212		
Kibler Chemical Co.: Paris green, Kibler's strictly pure.....	22		

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Lewis, Hermie B. (trading as H. B. Reynolds Manufacturing Co.): Lice killing nest eggs, Reynold's		Maltus & Ware (William A. Maltus and Heber J. Ware, trading as): Gishurst compound	657
Lewy Chemical Co.:		Manhattan Food Co.: Napthal-kali	201
Camphor compound, extra refined Chinese ta ta	752	Marshall Oil Co. Dipolene stock dip and disinfectant	314
Camphorized flake compound, extra refined	24	Martin, C. J.:	
Camphorized moth crystals, Lewy's oriental brand	23	Blue bug remedy, Martin's	923
Cedar of Lebanon and camphor	52	Blue bug killer, Martin's wonderful	679
Insect powder, Persian	25	Martin-Senour Co.:	
Moth tube, meeker	72	Bordo-arsenate, dry	739
Leyland & Co., Thomas (F. T. Walsh, trading as): Lime sulphur	525	Sheep dip	558
Lilly Co., The Charles H.:	159	Masury-Young Co.: Disinfectant	560
Insect powder, Lilly's best	146	Mayhew, Mead L.: Mayhew's germicide	726
Lice and mite liquid, Lilly's	985	Mayhew Remedy Co. (Mead L. Mayhew and William C. Adams, trading as): Mayhew's germicide	
Tobacco extract, Lilly's	146	Mechling Bros. Manufacturing Co.:	
Littlefield, George E. (trading as Sterling Chemical Co.):		Hydroxide, Mechling's yellow label	376
Arsenate of lead, Sterlingworth	145	Lime-sulphur solution	155
Bordeaux mixture fungicide, Sterlingworth	36	Lime, white marsh	294
Creolosol	145	Meek, Court & Co.: Concentrated u-ko-pine	741
Fish oil kerosene emulsion, Sterlingworth	200	Mendelson's Sons, A.:	
He-bo, Sterlingworth	334	Chlorinated lime, acne	605
Lime and sulphur wash	269	Merck Chemical Co. (Harry P. Cook, trading as): Lilac powder	625
Live Stock Remedy Co.: Lions' imported dip	387	Merchants Drug Co.: Rat snap	603
Long, J. Alvey, and Henry A. Bester, jr. (trading as Hagerstown Spray Material Co.): Lime sulphur solution, concentrated	541	Merck & Co.: Creolin-pearson	103
Lorenz, Max (trading as Breeders Remedy Co.): Heureka worm capsules	541	Merrell Chemical Co., The William A.: Cresol compound, solution	249
Lucas & Co., John:	821	Metropolitan Chemical Specialty Co. (Jules Blan, trading as): Cresol comp	12
Arsenate of calcium, dry powdered	935	Metzger Manufacturing Co.: Licecil	365
Arsenate of calcium, dry powdered	970	Mexican Roach Food Co. (L. A. Hogg, trading as): Hair tonic and nit killer, Mexican brand	
Lund, Christian A. (trading as Gold Coin Chemical Works):	819	Meyer Brothers Drug Co.:	
Lice killer, gold coin	807	Fly shake, red diamond	164
Worm powder, gold coin	807	Louse killer, red diamond improved	352
Lyons & Co., I. L.: Specific remedy, C. F. Emmett's	801	Louse killer, red diamond improved	966
		Vermifuge for horses and cattle	802
		Michell Co., Henry F.: Fish-oil soap, Michell's pure	
		Midland Chemical Co.:	
		Disinfectant, Midland black	599
		Dripoleum	528
		Midwood Chemical Co.:	
		Roach raid	472
		Sanitary fluid, Midwood	491
		Miller, James A. (trading as Leon Hirsh and Son): Chlorinated lime, Hirsh's	
		Miller, James A., and Arthur O. Oleson (trading as Leon Hirsh and Son): Chlorinated lime, Hirsh's star brand	978
		Chlorinated lime, Hirsh's star brand	632
		Chlorinated lime, Hirsh's star brand	633
		Chlorinated lime, Hirsh's star brand	634
		Milwaukee Lubricants Co.: Milwaukee sanitary fluid	
		Minneapolis Drug Co.: Richards' karbo dip	647
		Minnesota Linseed Oil Paint Co.: Ottwell's tree paint	160
		Missouri-Kansas Chemical Corporation: Disinfectant, black	
		Solu-pinol	374
		Miyamoto Incense Co. (Delia E. Haskins, trading as): Japanese water lily incense	
		Modoc Co., The: Lime sulphur solution, Modoc concentrated	478
		Moore Chemical Co. (Robert W. Prescott, trading as): Car-nol disinfectant	
		Moorman Manufacturing Co.:	
		Dip and disinfectant, stock	329
		Dip and disinfectant, stock	221
		Morisite Manufacturing Co.: Germlin	292
		Morris & Dickson Co. (Ltd.): Webb's Texas stock powder	
		Mount Hood Soap Co.: Whale oil soap, Mount Hood	563
		Mulford Co., H. K.:	
		Kreol, Mulford's	847
		Liquor cresolis compositus, U. S. P.	121
		Liquor cresolis compositus, U. S. P.	127
		Murray & Nickell Manufacturing Co.:	
		Powdered white hellebore	936
		Powdered white hellebore	
		Myr-Ic Chemical Co. (Thomas W. Evans, trading as): Evans' myr-ic spray	
		Sanitary fluid, magic-oleum	867
		Sanitary fluid, magic-oleum	870

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National Aniline & Chemical Co.: Crude carabolic acid	No.	Olinger, Maurice and William A. Andur (trading as Wano Chemical Co.): Nok-em-al	364
National Chemical Co.: Chlorinated lime or bleaching powder, Lennox brand	277	Oleson, Arthur O., and James A. Miller (trading as Leon Hirsh & Son): Chlorinated lime, Hirsh's star brand	632
National Pharmacy Co.: Liquor cresolis compositus, U. S. P.	896	Chlorinated lime, Hirsh's star brand	633
National Sanitary Co.: Donohue's eucalyptus drip fluid	662	Chlorinated lime, Hirsh's star brand	634
National Spray Chemical Co.: Lime sulphur solution	368	Omaha Horse, Cattle and Hog Remedy Co.: Sunflower bug skidoo	602
Nebraska Live Stock Remedy Co.: Nebraska germicide disinfectant dip	756	Oregon Arsenical Spray Co. (Jacob C. Butcher, trading as): Lime sulphur solution	223
Newlyn Chemical Co. (R. A. Newlyn, Elly Papadopula, and Thomas Best, trading as): Kil-em	198	Otis Orchards Supply Co.: Lime and sulphur solution	342
Niagara Sprayer Co.:	636	Owl Drug Co., The: Rajah sheep dip	976
Calcium arsenate, Niagara powdered	476		
Dusting mixture, 3 in 1	385		P
Lime sulphur solution, Niagara brand	619	Palethorpe Co., P. R.:	
Nichols & Co., Charles H.:	308	Nicoticide	598
Bedbug powder, climax	405	Nicoticide	695
Bedbug powder, Nichols'	439	Papadopula, Elly, R. A. Newlyn, and Thomas Best (trading as Newlyn Chemical Co.): Kil-em	198
Bedbug powder, Nichols'	851	Parke, Davis & Co.:	
Bedbug powder, Nichols'	621	Insect powder, P. D. & Co. brand	315
Cockroach powder, Nichols'	995	Insect powder, P. D. & Co. brand	498
Nicotine Manufacturing Co.:	994	Dip, Kreso No. 1	317
Nikoteen aphis punk	101	Dip, Kreso No. 1	437
Skaboura	903	Nictone	316
Nierenberg, John (trading as Prof. Hirsch Chemical Co. and Prof. Hirsch Exterminator Co.):	547	Septico	530
Bedbug exterminator, Hirsch's	549	Septico	796
Bedbug exterminator, Hirsch's	548	Park & Pollard Co.: Lice powder, P. & P.	523
Roach exterminator, Hirsch's		Pasteur Laboratories of America: Eucamphol dip	523
Nierenberg, John N., and Thomas F. Harper (trading as Harper Bros. and Prof. Hirsch Chemical Co.):		Paul, Albert L. (trading as Thunderbolt Manufacturing Co.): Thunderbolt, the great and destroyer	931
Disinfectant, Harper's supreme	493	Paxton-Eckman Chemical Co.: Carsolum dip	648
Germ destroyer and deodorizer, Harper's supreme perfumed	492	Peaslee-Gaulbert Co.: Lime sulphur solution	184
Nitrate Agencies Co.:	774	Peck, Alfred E. (trading as Cresol Chemical Co.):	89
Arsenate of calcium	864	Camphor, synthetic	275
Arsenate of calcium	909	Cresol	230
Bordeaux-Paris green mixture	1000	Lavender camphor compound	168
Kalibor powder	875	Red cedar compound camphorated	167
Nicodust "A" powder	797	Penn Chemical Co.:	
Paris green, naco brand	854	Dead stuck	104
Paris green, naco brand		Dead stuck	105
No-Blight Manufacturing Co. (Roy W. Williams, Joseph W. Everetts, and Mrs. Roy W. Williams, trading as): No-blight	470	Penn Chemical Manufacturing Co. (John R. Noggle, trading as): Dead stuck	536
Noggle, John R. (trading as Penn Chemical Manufacturing Co.): Dead stuck	536	Peptoast Co., The (William Mack, trading as): Mack's perfectly pure uncolored Dalmatian insect powder	435
No-Od Chemical Co.: No-od	988	Perfection Chemical Co.: Carman's perfection antipest	95
Northern Chemical Association: Benetol	169	Peterman (Inc.) Wm.:	
North Star Chemical Works:	840	Ant food, Peterman's	41
Fly chaser, north star	826	Roach food, Peterman's	40
Germ-x	456	Pfeiffer Manufacturing Co.: Liquid rid em	504
Northwest Manufacturing and Milling Co.:	921	Philadelphia Kretol Co., The (George S. Faucett, trading as): Kretol	129
Gets-em bot and worm destroyer	991	Phinotas Chemical Co.:	
Northwestern Pine Tar Co.:	579	Disinfectant, Phinotas	524
Pine tar, dixie pure	170	Disinfectant, pine	513
Pine tar, dixie pure	710	Pierson, J. C.: Fir tree oil soap, Stott's	49
Noyes Bros. & Cutler:		Pino-Lyptol Chemical Co.: Pino-lyptol creozone	601
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Fly oil, Webster's	484	Pioneer Quick Fly Exterminator Co., The (J. L. Hazen and William Feldman, trading as): Fly exterminator, the pioneer quick	90
Lice powder, Webster's		Pioneer Stock Dip and Remedy Co.: Pioneer stock dip	349
O		Pittsburgh Insect Exterminating Co. (L. Albert Odell, trading as): Roach powder Odell's	43
Odell, L. Albert (trading as Pittsburgh Insect Exterminating Co.): Roach powder, Odell's		Polk Miller Drug Co.: Sergeant's infallible remedy for fleas	278
O. K. Purifier Co. (George F. Chapman, trading as): O. K. formaldehyde purifier liquid		Pommier Co., I. A. (Inc.):	
O. K. Sterilizer Co. (Arthur Chichester McCartneye, J. Clifford Baker, Frank W. Knight, Raymond A. McMillan, and Leon M. Somes, trading as): O. K. sterilizer		Pom's golden wonder	972
O. K. Stock Food Co.: Fly relief, O. K.	452	Pom's golden wonder	984
	210	Porter, John B. (trading as Spray Chemical Compounding Co., and In-Sect-Ine Manufacturing Co.): In-sect-in-e	395

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Portland Seed Co.:	
Aphicide.....	73
Aphicide.....	232
Spra-sulphur, diamond.....	304
Lime and sulphur solution, standard.....	122
Post Chemical Manufacturing Co.:	
Coal tar dip and disinfectant.....	800
Coal tar disinfectant.....	766
Coal tar disinfectant.....	866
Fly oil.....	776
Pine oil disinfectant, soluble.....	885
Pine oil disinfectant, soluble.....	892
Pine oil disinfectant, soluble.....	894
Pine oil, special.....	556
Powers-Weightman-Rosengarten Co.:	
Arsenate of lead paste.....	497
Cyanide, purified.....	75
Pratt Co., B. G.:	
Sulfocide.....	171
Sulfocide.....	850
Sulfocide.....	865
Pratt Food Co.:	
Disinfectant, germathol sanitary.....	
Disinfectant, Germ-a-thol sanitary.....	
Lice killer, Pratt's liquid.....	
Premium Chemical Co.: (C. D. Smith Drug Co., trading as) No-fl.....	663
Prescott Chemical Co. (trading as Chemical Supply Co.): Sheep dip.....	214
Prescott Chemical Co. (Warren Refining & Chemical Co., trading as):	
Disinfectant, 6-8 coal tar.....	
Disinfectant, soluble pine oil.....	
Prescott, Robert W.:	
Car-sul.....	
Fly-oil.....	
Hog remedy, Moore's.....	
Prescott, Robert W. (trading as Moore Chemical Co.): Car-sul disinfectant.....	
Preservative Manufacturing Co.: No-flies-here.....	
Prouse, P. E. and Chauncey A. Jones (trading as American Remedy Co.): Lice killer, American.....	
Prussian Remedy Co. (Lamprey Products Co., trading as):	
Ant powder, Lamprey.....	
Dip No. 1, knapo-euro.....	
Purifine Products Co. (Inc.):	
Disinfectant compound, soluble.....	957
Insecticide, dip and disinfectant.....	954
Q	
Q-W Laboratories Henri Vibert, trading as: Verminol.....	973
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Ralston, Jennie I (trading as George B. Robbins Disinfectant Co.): Robbins pine liquid.....	
Rat Biscuit Co. The: Rat bis-kit past.....	
Rawleigh Co., The W. T.: Kreo.....	
Reade Manufacturing Co. (William J. Reade, trading as):	
Bug exterminator, Readeana rose.....	
Cut-worm food, Reade's.....	
Flower spray, Readeana.....	
Readeana.....	
Readeana.....	
Worm eradicator, Reade's electric.....	
Red Ball Co.: Red ball louse killer.....	
Red Ball Stock Food Co.: Sure shot powdered lice killer.....	
Red "C" Oil Manufacturing Co.: Tarboline.....	
Red Cross Chemical Co. (Haver J. Hilliard, trading as): Disinfectant and deodorizer, red cross.....	
Renouard, Charles A. (trading as A. Renouard & Son): Renouard's crisins.....	
Renskorf, Alfred, and Morris Herrmann (trading as Morris Herrmann & Co.): Bordeaux mixture.....	
Reynolds Manufacturing Co. H. B. (George D. Lewis, trading as):	
Lice killer nest eggs.....	
Nest eggs, friend of the h-n.....	
Reynolds Manufacturing Co., H. B. (Hermie B. Lewis, trading as): Lice killing nest eggs, Reynolds.....	
Riches Piver & Co.:	
Arsenate of lead powder.....	
Lime sulphur solution.....	
Rich-lac Co. (Neh-mish L. Rich, trading as): Victory tree wound paint.....	
Richmond Germicide Co. Harry Houseman, trading as): Germ-fre.....	
Rickscker Co. The Theodore: Ricksecker dog cap.....	
Roach & Herr (Jeremiah Thomas Roach and Jason A. Herr, trading as): Umplezent kumpnee.....	
Robbins Disinfectant Co.: George B. (Jennie I. Ralston, trading as): Robbins pine liquid.....	
Roberts Veterinary Co., Dr. David:	
Disinfectall, Dr. David Roberts'.....	
Disinfectall, Dr. David Roberts.....	
Robertson Products Co., Theodore B. Cre-septic.....	
Rochester Germicide Co.:	
Germicide, sol-o-kre.....	
San-o-la.....	
Rowe Sanitary Manufacturing Co. (William E. Strisky, trading as): Ro-san chemical.....	
Rowles, W. A. (trading as D'ozzo Disinfecting Co.): Dizoo.....	
Royal Exterminating Products Inc.:	
Bedbug destroyer, royal guaranteed.....	
Rat and roach paste, royal.....	
Rust & Sons Co., William: Rust's liquid mite killer.....	
Rust, William H.: Rusoline.....	
Ryder, Richard H., and Brown P. Ryder, (trading as Bronson Chemical Co.): Ozonec.....	
Sacramento Chemical Co. (John Wilson trading as):	
Entomocide.....	
No-fly.....	
Saltonic Co. (Ralph R. Crocker, trading as): Cresone.....	
Sanitary Supply Co. (Louis Holzapfel, trading as): Creosene disinfectant.....	
Sanitas Co., The: Animal (soft) Soap, sanitas.....	
Sanitas/Disinfectants Co.:	
Crude liquid, sanitas.....	
Sawdust, sanitas disinfecting.....	
San-O-Zone Chemical Co. (trading as S. O. S. Co.): Bedbug swat.....	
Santyline Chemical Co.: Pine Oil disinfectant.....	
Sawyer Crystal Blue Co.: I X L poison fly paper.....	
Scarless Remedy Co. (Elmer K. Cole and I. J. Ketman, trading as):	
Dip, besto stock.....	
Dip, besto stock.....	
Lice killer, liquid, scarless brand.....	
Schering & Glatz (Inc.):	
Formalin.....	
Formalin.....	
Schieffelin & Co.:	
Arsenate of lead.....	
Bug-oil soap, caustic potash No. 3.....	
Fish-oil soap, caustic potash No. 3.....	
Schnarr & Co., J. (J. Schnarr, trading as): Schnarr's insecticide.....	
Scholtz Mutual Drug Co.: Scholtz's roach exterminator.....	
Schrader Drug Co.: Dip and disinfectant No. 1, eureka.....	
Schramm-Johnson, Drugs:	
Bug killer, Hill's instantaneous non-poisonous.....	
Liquor cresol's (compound) soluble.....	
Ly-sept-ol, Cooper's.....	
Shapiro Chemical Works (Maurice Shapiro, trading as): Bug and fly exterminator, itsa Sharp & Dohme:	
Cresol compositus, U. S. P. solution.....	
Disinfecting fluid, sanax.....	
Shaw & Co., Alex. D. (consignor): Milton.....	
Milton.....	
Milton.....	
Milton.....	

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Shaw & Co.—Continued.	
Milton	673
Milton	735
Milton	745
Milton	785
Sherwin-Williams Co.:	
Arsenate of calcium	572
Arsenate of calcium	641
Arsenate of calcium	849
Arsenate of calcium and lead, dry powdered	622
Arsenate of lead	4
Arsenate of lead	18
Arsenate of lead, dry powdered	63
Arsenate of lead, dry powdered	899
Bordeaux mixture (paste)	109
Bordeaux mixture (paste)	112
Paris green	2
Paris green	46
Phenolene	626
Phenolene	916
Shipp, Paul E., and J. F. Shipp (trading as Bourbon Remedy Co.):	
Insecticide, bourbon	
Lice killer, bourbon	162
Shoemaker & Busch (Clayton F. Shoemaker and Miers Busch, trading as): London purple	163
Shoemaker & Co., Robert (Richard M. Shoemaker, Thomas E. Shoemaker, and Benjamin H. Shoemaker, Jr., trading as): Shoemaker's disinfectant	
Shoo-Fly Manufacturing Co. (Thomas M. Hall, trading as): Shoo-fly, the animal's friend	
Shores-Mueller Co.:	
Dip, Shores stock	6
Fly powder, Shores	700
Louse powder, Shores	699
Siegfried, W. A. (trading as the Bugicide Co.): Bugicide	761
Simmons Medicine Co. (trading as J. H. Zellin & Co.): Derby's prophylactic fluid	505
Sinclair Manufacturing Co.: Chlorinated lime, chieftain brand, high test	
Smith, B. Howard: Cockroach destroyer, B. Howard Smith's dead shot	
Smith & Co., D. B. (D. B. Smith, trading as): Fly and germ killer, standard	
Smith Co., H. J.:	
Arsenate of lead, powdered	233
Arsenate of lead, powdered	532
Arsenate of lead, powdered	537
Arsenate of lead products, Smith's	608
Arsenate of lead products, Smith's	607
Arsenate of lead products, Smith's	714
Arsenate of lead products, Smith's	717
Arsenate of lead products, Smith's	718
Arsenate of lead products, Smith's	788
Simplex	190
Simplex	219
Simplex	245
Simplex	289
Simplex	324
Smith Drug Co., C. D.:	
Lice and roach powder, game cock	559
No fly	663
Premium dip	558
Smith-Faus Drug Co.: Formaldehyde	422
Smith Insecticide Co., John B.: Smith's germicide	
Smith, Kline & French Co.:	
Powdered white helloboe	
Snowden Chemical Co.: (James R. Snowden, trading as): Sanitoria	
Sanitoria	617
Sanitoria	743
Sanitoria	744
Somes, Leon M., Arthur Chichester McCartney, J. Clifford Baker, Frank W. Knight and Raymond A. McMillan (trading as O. K. Sterilizer Co.): O. K. sterilizer	
Sonneborn Sons (Inc.), L.: Disinfectant, amalie	
S. O. S. Co. (San-O-Zone Chemical Co., trading as): Bedbug swat	
Southern Cypsum Co.: Plaster Paris green mixture	
Southland Combination Spray Manufacturing Co.: (Allison H. Speir, trading as): All-in-one spray	592
Speir Breeding Estate, H. M.: Giant smoke em canned smoke louse killer	964
Speir, Allison H. (trading as Southland Combination Spray Manufacturing Co.: All-in-one spray)	592
Sporicide Chemical Co.:	
Sporicide	533
Sporicide	534
Spratt's Patent, Limited:	
Dip	502
Dip, Spratt's	267
Dip, Spratt's	499
Eczema and mange remedy	974
Insect powder, Spratt's patent	248
Insect powder, Spratt's patent	303
Mange remedy, Spratt's follicular	419
Mite killer, Spratt's red	412
Spray Chemical Compounding Co. (John B. Porter, trading as): In-sect-ine	395
Staite & Co. (Walter Birch and John H. Bradshaw, trading as):	
Lice killer food, Staite's	553
Lice killer food, Staite's	577
Stallman & Co.:	
Insect powder, S. & F. brand absolutely pure	584
Insect powder, S. & F. brand absolutely pure	604
Standard Chemical Co.:	
Fish-oil soap	614
Sulfo nicotine spray	507
Sulfo nicotine spray	508
Standard Chemical Manufacturing Co.:	
Fly-shy, standard	477
Lice killer, standard	660
Protexol, standard	876
Protexol, standard	926
Standard Stock Food Co.: Fly-shy, standard	185
Star Chemical Co.: Star parasite remover	997
Stearns & Co., Frederick:	
Rat poison, Dike's (kills cockroaches, ants, water bugs, vermin, etc.)	147
Roach powder, Dike's	176
Roach powder, Nyal's	114
Stearns Electric Paste Co.: Rat and roach paste, electric	25
Steinfeld Bros. (Samuel Steinfeld and Leo Steinfeld, trading as): Cedar oil	340
Sterling Chemical Co. (Gerge E. Littlefield, trading as):	
Aphis killer	895
Arsenate of lead, Sterlingworth	145
Bordeaux mixture fungicide, Sterlingworth dry	145
Creolusol	36
Fish oil kerosene emulsion, Sterlingworth	
He-bo, Sterlingworth	200
Lime and sulphur wash	334
Sterling Chemical Co. (Weigle Co., trading as): Coal tar compound	269
Stewart & Holmes Drug Co.:	
Bedbug poison	890
Treesnap	694
Stillwagon Food Manufacturing Co. (Henry Hanischegiel, trading as): Lice killer, Stillwagon's powdered	310
Stinson, Benjamin F.: Stinson's insect exterminator	247
Stonecypher Drug & Chemical Co. (James H. Stonecypher, Charles Stonecypher, and Samuel C. Moon, trading as):	
Bug killer compound, Stonecypher's irish potato	669
Bug killer compound, Stonecypher's irish potato	359
Strisky, William E. (trading as Rowe Sanitary Manufacturing Co.): Ro-san chemical	571
Stumpf & Sons, John (Alvin T. Stumpf and Louise Stumpf, trading as): Stumpf's magic hoodoo flea and moth killer	960
Stumpf, John (Alvin T. Stumpf, Louis J. Stumpf, Archie C. Stumpf, and L. R. Stumpf, trading as): Magic hoodoo paper, John Stumpf's	538
Southern Cypsum Co.: Plaster Paris green mixture	158

No.		No.
Sturtevant Co., F. C.:		
Lice paint, Sturtevant.....		
Louse paste, Sturtevant.....		
Louse paste, Sturtevant.....		
Sturtevant, George P.: Tobacco and sulphur insecticide & fertilizer for plants		
Styers Mercantile Co.: Louse killer, rex one minute.....		
Sulpho-Naphthol Co.:		
Milkol, Cabot's.....		
Milkol, Cabot's.....		
Sulpho-naphthol, Cabot's.....		
Sunbeam Chemical Co.: Ozol.....		
<b>T</b>		
Tak-A-Nap Co. (John A. Hovey and Lillian F. L. Hovey, trading as): Tak-a-nap.....		
Talbot Manufacturing Co.: Talbot's de-o-de Talbot Chemical Co., The W. R.: Scaly leg remedy, Tablott's.....		
Tampa Drug Co.: Ashe's roachpepper.....		
Taylor & Bro., John R.: (John R. Taylor and Robert C. Taylor, trading as): Ant poison, yellow label.....		
Taylor Chemical Co.: Taylor's fuma.....		
Thompson & Co., F. A.:		
Nicotine, Thompson's rose.....		
Nicotine, Thompson's.....		
To-bak-ine liquid.....		
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